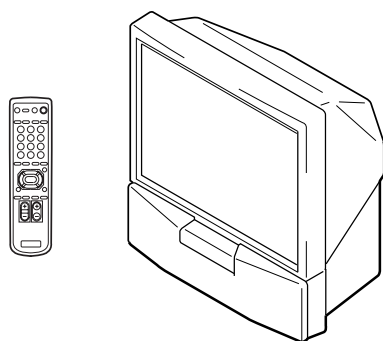


SERVICE MANUAL

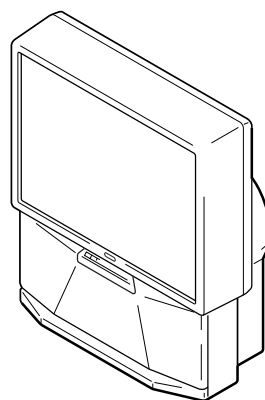
RG-2 CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KP-EF41HK	RM-871	HK	SCC-N71A-A
KP-EF41ME	RM-871	ME	SCC-N72A-A
KP-EF41MN	RM-871	GE	SCC-N69A-A
KP-EF41SN	RM-871	AUS	SCC-N73A-A
KP-EF48HK	RM-871	HK	SCC-N71C-A
KP-EF48ME	RM-871	ME	SCC-N72C-A
KP-EF48MN	RM-871	GE	SCC-N69C-A
KP-EF48SN	RM-871	AUS	SCC-N73C-A

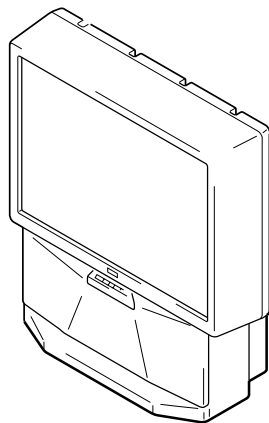
<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KP-EF53HK	RM-871	HK	SCC-N71B-A
KP-EF53ME	RM-871	ME	SCC-N72B-A
KP-EF53MN	RM-871	GE	SCC-N69B-A
KP-EF53SN	RM-871	AUS	SCC-N73B-A
KP-EF61HK	RM-871	HK	SCC-N71D-A
KP-EF61ME	RM-871	ME	SCC-N72D-A
KP-EF61MN	RM-871	GE	SCC-N69D-A
KP-EF61SN	RM-871	AUS	SCC-N73D-A



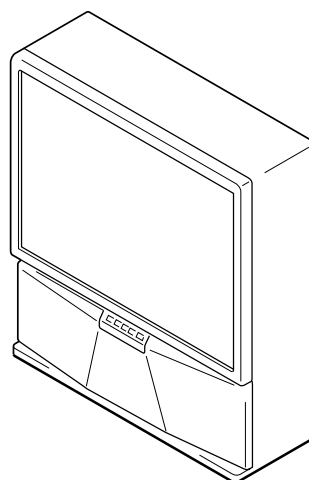
KP-EF41HK/EF41ME/
EF41MN/EF41SN



KP-EF48HK/EF48ME/
EF48MN/EF48SN



KP-EF53HK/EF53ME/
EF53MN/EF53SN



KP-EF61HK/EF61ME/
EF61MN/EF61SN



* Please file according to model size. ...☐

41

48

53

61

PROJECTION TV
SONY®

SPECIFICATIONS

Projection system

3 picture tubes, 3 lenses, horizontal in-line system

Picture tube

7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquidcooling system

Projection lenses

High performance, large-diameter hybrid lens

Screen size

41 inches (KP-EF41)
48 inches (KP-EF48)
53 inches (KP-EF53)
61 inches (KP-EF61)

Television system

B/G, I, D/K, M

Color system

PAL, PAL 60, SECAM, NTSC^{4,43},
NTSC^{3,58}

Channel coverage

B/G

VHF: E2 to E12
UHF: E21 to E69
CATV: S01 to S03, S1 to S41

I

UHF: B21 to B68
CATV: S01 to S03, S1 to S41

D/K

VHF: C1 to C12, R1 to R12
UHF: C13 to C57, R21 to R60
CATV: Z1 to Z39, S01 to S03, S1 to S41

M

VHF: A2 to A13
UHF: A14 to A79
CATV: A-8 to A-2, A to W+4,
W+6 to W+84

Stereo system

NICAM stereo B/G, I, D/K
A2 stereo (German) B/G

Antenna

75 ohm external antenna terminal

Audio output (Speaker)

15 W × 2

Number of terminals

Video

Input: 4, Output: 1
phono jacks, 1 Vp-p, 75 ohms

Audio

Input: 5, Output: 1, VARIABLE output:
1, phono jacks, 500 mVrms

S video

Input: 2,
Y: 1 Vp-p, 75 ohms, unbalanced, sync
negative,
C: 0.286 Vp-p, 75 ohms

Component video

Input: 1, phono jacks
Y: 1.0 Vp-p, 75 ohms, sync negative
C_B/B-Y: 0.7 Vp-p, 75 ohms
C_R/R-Y: 0.7 Vp-p, 75 ohms
Audio: 500 mVrms

Headphone

Output: 1, minijack

Power requirement

110 – 240 V AC, 50/60 Hz

Power consumption

160 W

Dimensions (w/h/d)

948 × 992 × 511 mm (KP-EF41)
1106 × 1336 × 558 mm (KP-EF48)
1218 × 1413 × 602 mm (KP-EF53)
1338 × 1520 × 655 mm (KP-EF61)

Mass

Approx. 43 kg (KP-EF41)
Approx. 66 kg (KP-EF48)
Approx. 70 kg (KP-EF53)
Approx. 124 kg (KP-EF61)

Supplied accessories

Remote commander RM-871 (1)
Size R6 (AA) battery (2)

Optional accessory

AV rack SU-EF41 (KP-EF41),
SU-EF4853 (KP-EF48/EF53)

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF HTE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!


COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

<i>Section</i>	<i>Title</i>	<i>Page</i>	<i>Section</i>	<i>Title</i>	<i>Page</i>
1. GENERAL		4	6. DIAGRAMS		
2. DISASSEMBLY			6-1. Block Diagrams		49
2-1. Rear Board Removal		19	6-2. Frame Schematic Diagram		62
2-2. Main Bracket Section Removal		20	6-3. Circuit Boards Location		62
2-3. Service Position		21	6-4. Schematic Diagrams and Printed Wiring Boards		63
2-4. H1 Board, H2 Board and Resistor (High Voltage) Removal		22	(1) Schematic Diagram of AG (1/3) Board		67
2-5. Bezneta Section Removal		24	(2) Schematic Diagram of AG (2/3) Board		71
2-6. G Board Removal		26	(3) Schematic Diagrams of AG (3/3), CB, CG and CR Boards		75
2-7. P1 Board and V2 Board Removal		26	(4) Schematic Diagram of E Board		79
2-8. UG Board, AG Board and S Board Removal		26	(5) Schematic Diagram of D Board		89
2-9. High-Voltage Cable Installation and Removal		27	(6) Schematic Diagram of P1 and V2 Boards		93
2-10. Mechaseal Assy Removal		27	(7) Schematic Diagrams of H1, H2, S, ZG and ZR Boards		101
2-11. Chassis Block Removal		28	(8) Schematic Diagrams of G and UG Boards		104
(1) H1, H2 Boards and Resistor Removal		28	6-5. Semiconductors		109
(2) Main Bracket Removal		29			
(3) Chassis Block Removal		30			
3. SET-UP ADJUSTMENTS			7. EXPLODED VIEWS		
3-1. Screen Voltage Adjustment (Rough Alignment)		31	7-1. Screen and Cover Block (KP-EF41)		111
3-2. Focus Adjustment		31	7-2. Cabinet and Panel Block (KP-EF41)		112
3-3. Screen (G2) Adjustment		31	7-3. Chassis and Picture Tube Block (KP-EF41)		113
3-4. Deflection Yoke Tilt Adjustment		31	7-4. Screen and Cover Block (KP-EF48)		114
3-5. 2-Pole Magnet Adjustment		32	7-5. Cabinet and Panel Block (KP-EF48)		115
3-6. 4-Pole Magnet Adjustment		32	7-6. Chassis and Picture Block (KP-EF48)		116
3-7. Defocus Adjustment (Blue)		32	7-7. Screen and Cover Block (KP-EF53)		117
3-8. Green and Red Focus Adjustment		32	7-8. Cabinet and Panel Tube Block (KP-EF53)		118
3-8-1. Green and Red Lens Focus Adjustment		32	7-9. Chassis and Picture Tube Block (KP-EF53)		119
3-8-2. Green and Red Electrical Focus Adjustment		32	7-10. Screen Block (KP-EF61)		120
4. SAFETY RELATED ADJUSTMENT			7-11. Panel and Cover Block (KP-EF61)		121
4-1. HV Hold Down Adjustment		33	7-12. Chassis and Picture Tube Block (KP-EF61)		122
5. CIRCUIT ADJUSTMENTS		34	8. ELECTRICAL PARTS LIST		123
5-1. Adjustments with Commander		34			
5-2. Adjustment Method		35			
5-3. Adjustment After IC1001 and IC1702 Replacement		35			
5-4. Registration (Convergence) Adjustment Method		42			
5-5. Auto Convergence Adjustment		47			
5-6. White Balance Adjustment		48			
5-7. Text Position Adjustment		48			
5-8. Picture Quality Adjustments		48			

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

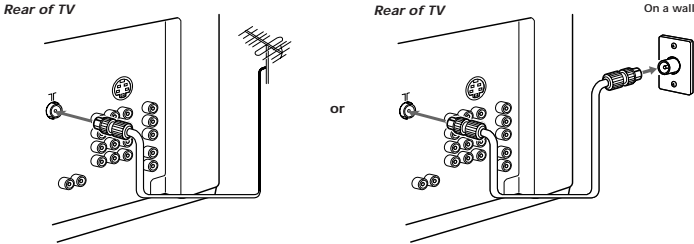
SECTION 1 GENERAL

Getting Started

Connections

Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

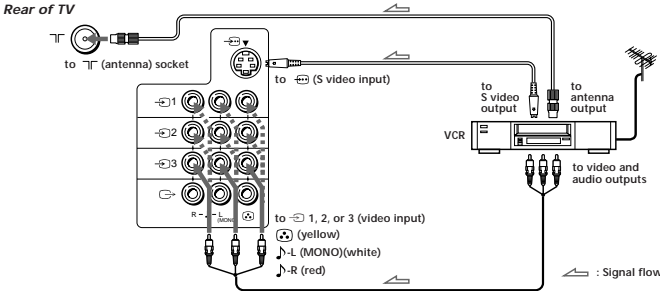
Attach an optional IEC antenna connector to the 75-ohm coaxial cable.
Plug the connector into the  (antenna) socket at the rear of the TV.



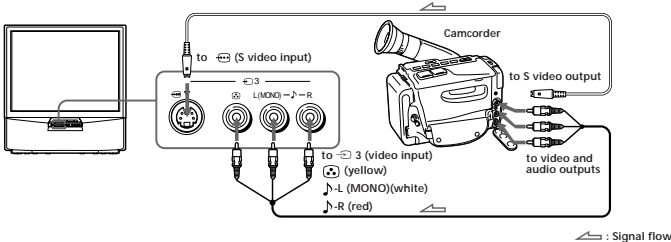
Connecting optional equipment

You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, video game or stereo system.

Connecting video equipment using video input jacks



Front of TV



When connecting a monaural VCR

Connect the yellow plug to  (video input) and the black plug to  (MONO) (audio input).


When connecting video game equipment

Connect video game equipment to the  3 (video input) jacks at the front or the rear of your TV.


When connecting a VCR to the (antenna) terminal

Preset the signal output from the VCR to the program position 0.

When connecting video equipment to the 3 (video input) jacks at the front and the rear

Do not connect video equipment to the  3 (video input) jacks at the front and the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

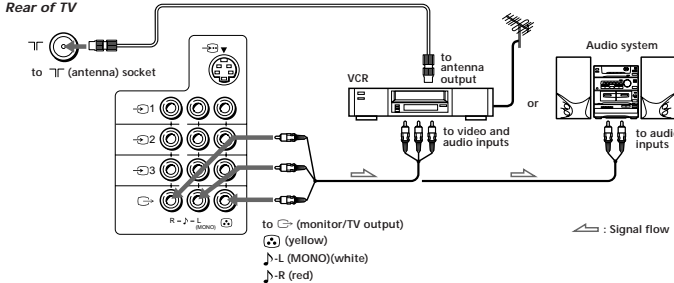
If both S Video and video signals are input simultaneously

The S video input signal is selected. To view a video input signal, disconnect the  (S video) connection.

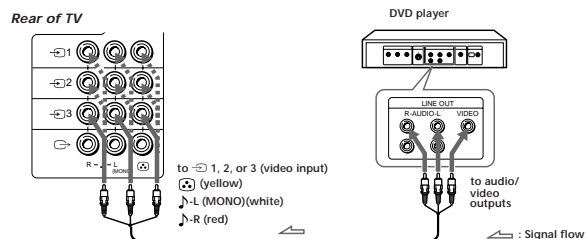
Note on the video input

When no signal is input, the screen becomes blue.

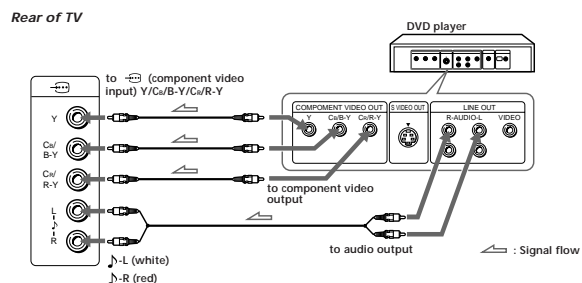
Connecting audio/video equipment using (monitor/TV output) jacks



Connecting a DVD player



Connecting a DVD player with component video output connectors




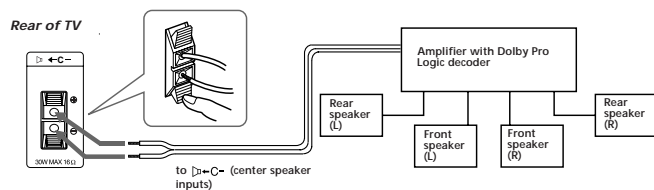
Notes

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust the sharpness (SHARP) in the VIDEO ADJUST menu. (See page 20.)
- Connect your DVD player directly to your TV. Connecting the DVD player through other video equipment will cause unwanted picture noise.

Connecting an amplifier with Dolby® Pro Logic decoder

Even though you use an amplifier with Dolby Pro Logic decoder instead of the projection TV's audio system, you can still use the projection TV's center speaker.

* Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY, the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

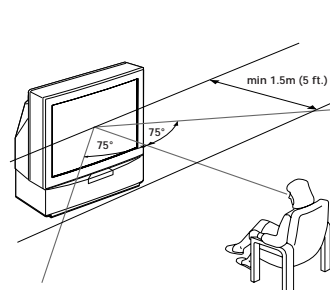


Installing the projection TV

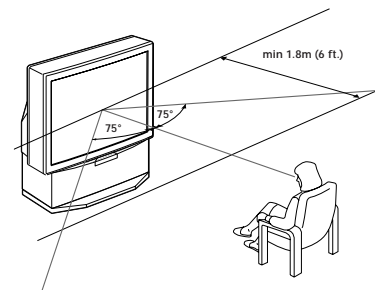
For the best picture quality, install the projection TV within the areas shown below.

Optimum viewing area (Horizontal)

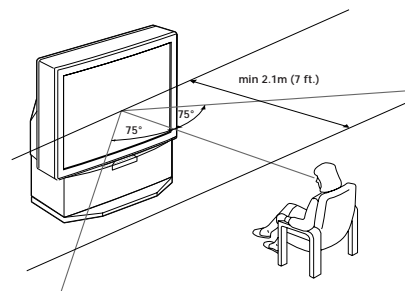
KP-EF41



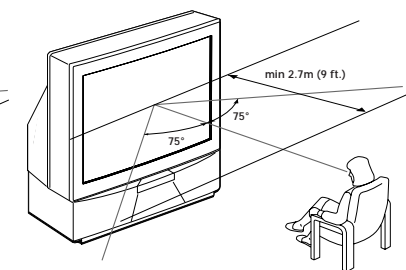
KP-EF48



KP-EF53

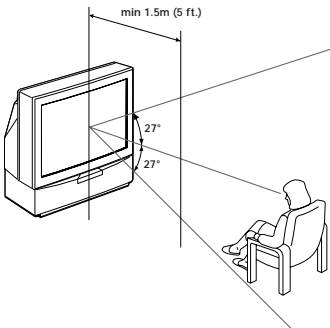


KP-EF61

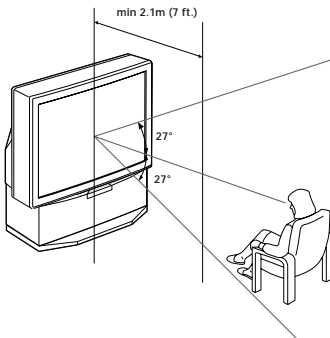


Optimum viewing area (Vertical)

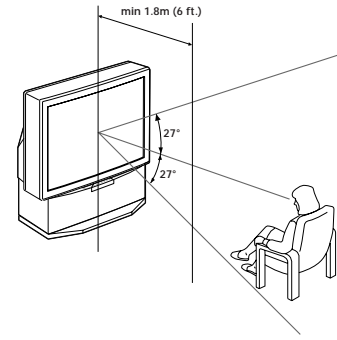
KP-EF41



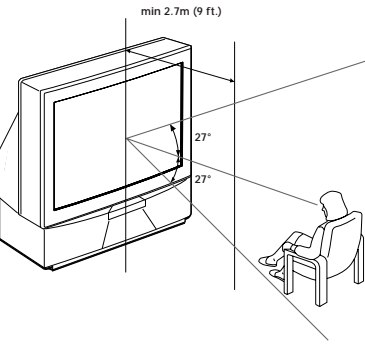
KP-EF53



KP-EF48



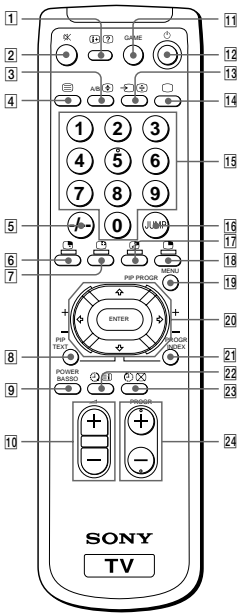
KP-EF61



Getting to know the remote commander

Names/symbols of buttons on the remote commander are indicated in different colors to represent the available functions.

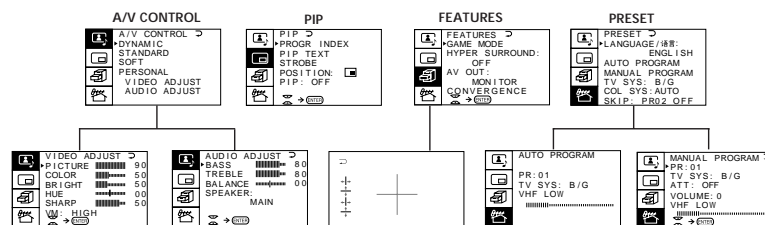
Label color	Button function
White	For general TV operations.
Green	For Teletext operations.
Yellow	For PIP and PROGRAM INDEX operations.



Symbol	Name	Refer to page
1	On-screen display button	19
2	Teletext: Reveal button	29
3	Mute on/off button	19
4	A/B Sound select button	24
5	Teletext: Enlarge button	29
6	Teletext button	28
7	Double-digit entering button	18
8	Input select for PIP button	26
9	PIP freezing button	27
10	PIP TEXT PIP TEXT button	30
11	POWER BASSO POWER BASSO button	22
12	Volume control button	18
13	GAME GAME button	31
14	TV standby button	18
15	Input mode selector	19
16	Hold button	28
17	TV power on/TV mode selector	19
18	Number buttons	18
19	JUMP JUMP button	19
20	Swapping picture button	27
21	PIP display button	26
22	MENU MENU button	12
23	Cursor control key	12
24	ENTER Enter button	12
25	PROGR PROGR INDEX button	25
26	Wake up button (not in use for your model)	
27	Teletext: INDEX button	28
28	Sleep timer button	19
29	Teletext: Text clear button	29
30	PROGR +/- Program selectors	18

Introducing the menu system

You can preset TV channels, adjust the picture and sound qualities, and select some settings using the on-screen menus. You can use the buttons on both the remote commander and the TV to operate the menus.



Getting back to the previous menu (except for AUTO PROGRAM)

Press **←** or **→** to move the cursor (▶) to the first line (◀) of each menu, and press ENTER.

Cancelling the menu screen

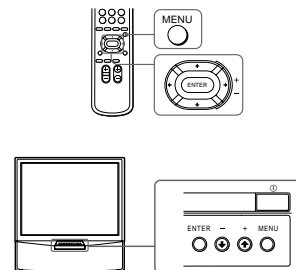
Press MENU.

Notes (except for AUTO PROGRAM)

- When a menu is selected after pressing ENTER, the color of both the menu and the menu symbol change and the cursor (▶) appears beside the first item of the menu.
- When an item on the menu is selected after pressing ENTER, the color of the item changes.
- You can refer to the guide (▶) at the bottom of the menus (except for the A/V CONTROL and PRESET menus) for the basic operations of the menu.
- If more than approximately 60 seconds elapse after you press a button, the menu screen disappears automatically.

Changing the menu language

If you prefer Chinese (for MN, MG, HK and SN models)/Arabic (for ME model) to English, you can change the menu language. You can use buttons on both the remote commander and the TV.



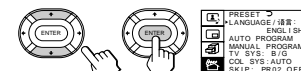
1 Press ① to turn on the TV.



2 Press MENU.



3 Press **↑** or **↓** to move the cursor (▶) to the PRESET menu (PRESET), and press ENTER.



4 Make sure the cursor (▶) appears beside LANGUAGE/ 语言 (اللغة), and press ENTER.

5 Press **←** or **→** to select 中文 (عربي), and press ENTER.

All of the menus change to Chinese (Arabic).

6 Press MENU to return to the normal screen.

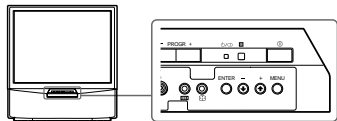


Presetting channels

You can preset TV channels easily by storing all the receivable channels automatically. You can also preset channels manually or disable program positions (see page 16).

Presetting channels automatically

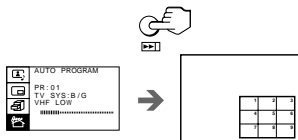
You can preset up to 100 TV channels in numerical sequence from the program position 1. You can preset channels automatically using the button on the TV or the menu.



- 1 Press ① to turn on the TV.



- 2 Press ②.



The TV starts scanning and presetting channels automatically. When all of the receivable channels are stored, the AUTO PROGRAM menu disappears and the first nine preset TV programs appear on the nine sub screens. The nine sub screens disappear after being displayed for several seconds.

Note

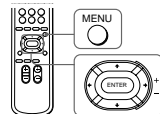
- If you want to return to the normal screen while the nine sub screens are being displayed, you can press PROGR INDEX on the remote commander.

To preset channels automatically using the menu

- 1 Press MENU.
- 2 Press ▲ or ▼ to move the cursor (▶) to the PRESET menu (PRESET), and press ENTER.
- 3 Press ▲ or ▼ to move the cursor (▶) to AUTO PROGRAM, and press ENTER.

Presetting channels manually

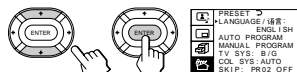
To change the program position for a channel or to receive a channel with a weak signal which you cannot receive by automatic presetting, preset the channel manually.



- 1 Press MENU.



- 2 Press ▲ or ▼ to move the cursor (▶) to the PRESET menu (PRESET), and press ENTER.



- 3 Select your local TV system.

- (1) Press ▲ or ▼ to move the cursor (▶) to TV SYS, and press ENTER.
- (2) Press ▲/▼/▶/◀ until your local TV system appears on the menu, and press ENTER.

- 4 Press ▲ or ▼ to move the cursor (▶) to MANUAL PROGRAM, and press ENTER.



- 5 Select the program position to which you want to preset a channel.

- (1) Make sure the cursor (▶) appears beside PR, and press ENTER.
- (2) Press ▲/▼/▶/◀ until the program position you want appears on the menu, and press ENTER.

- 6 Select the desired channel.

- (1) Press ▲ or ▼ to move the cursor (▶) to VHF LOW (VHF Hi or UHF), and press ENTER.
- (2) Press ▲/▼/▶/◀ until the desired channel picture appears on the TV screen, and press ENTER.

- 7 Press MENU to return to the normal screen.

If the TV system is not properly selected

The picture color may be poor and/or the sound may be noisy. In this case, select the appropriate TV system.

- 1 Press PROGR +/- or the number buttons to select the program position.
- 2 Display the PRESET menu.
- 3 Press ▲ or ▼ to move the cursor (▶) to TV SYS, and press ENTER.
- 4 Press ▲/▼/▶/◀ until the appropriate TV system appears, and press ENTER.

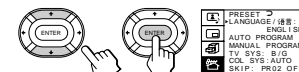
Notes

- The TV SYS (TV system), the ATT (attenuator), and the VOLUME (volume offset) settings are memorized for each program position.
- If you do not know your local TV system, consult your nearest Sony dealer or authorized service center.

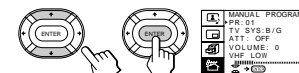
Attenuating the signal for individual programs

If the TV signal is too strong, the picture may be distorted. You can reduce the picture distortion by attenuating the signal individually.

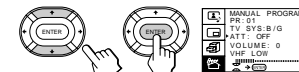
- 1 Display the PRESET menu.



- 2 Press ▲ or ▼ to move the cursor (▶) to MANUAL PROGRAM, and press ENTER.



- 3 Press ▲ or ▼ to move the cursor (▶) to ATT, and press ENTER.



- 4 Press ▲/▼/▶/◀ to select ON, and press ENTER.

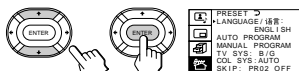
Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROG +/-.

1 Press MENU.



2 Press + or - to move the cursor (▶) to the PRESET menu (PRESET), and press ENTER.



3 Press + or - to move the cursor (▶) to SKIP, and press ENTER.

4 Press + or - until the unused or unwanted program position appears on the menu, and press ENTER.

5 Press +/- to select ON, and press ENTER.

6 To disable other program positions, repeat steps 4 and 5.

7 Press MENU to return to the normal screen.

To cancel the skip setting

- 1 Display the PRESET menu.
- 2 Press + or - to move the cursor (▶) to SKIP, and press ENTER.
- 3 Press + or - until the program position you want to cancel the skip setting appears, and press ENTER.
- 4 Press +/- to select OFF, and press ENTER.

Presetting the volume level for individual programs

If the volume of the selected program is louder than that of other programs, set the volume level.

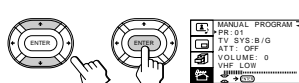
1 Press MENU.



2 Press + or - to move the cursor (▶) to the PRESET menu (PRESET), and press ENTER.



3 Press + or - to move the cursor (▶) to MANUAL PROGRAM, and press ENTER.



4 Press + or - to move the cursor (▶) to VOLUME, and press ENTER.

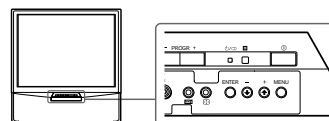
5 Press +/- to set the level, and press ENTER.

The level can be set as 0, -1, -2, ..., -6 (minimum).

Adjusting the convergence (CONVERGENCE)

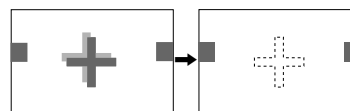
Before you use the projection TV, adjust convergence. The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence. After 20-30 minutes of turning on the power, adjust convergence.

Adjusting the convergence automatically



Press [AUTO] on the TV.

The auto convergence function works for about 30 seconds.

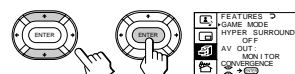


Adjusting the convergence manually

When the auto convergence function does not work correctly with [AUTO], adjust convergence by selecting CONVERGENCE of the FEATURES menu.

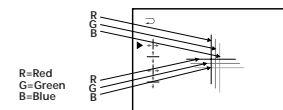
1 Press MENU.

2 Press + or - to move the cursor (▶) to the FEATURES menu (FEATURES), and press ENTER.

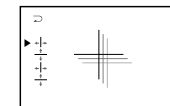


3 Press + or - to move the cursor (▶) to CONVERGENCE and press ENTER.

The CONVERGENCE adjustment screen appears.

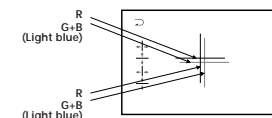


4 Press + or - to move the cursor (▶) to the symbol showing the line you want to adjust, and press ENTER.



- + : Red vertical line (left/right adjustment)
- + : Red horizontal line (up/down adjustment)
- + : Blue vertical line (left/right adjustment)
- + : Blue horizontal line (up/down adjustment)

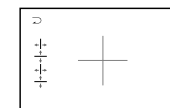
5 Press + or - to move the line until it converges with the center green line, and press ENTER.



To move up/right, press +.

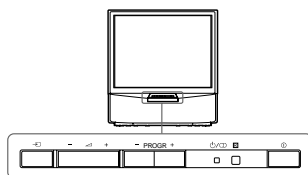
To move down/left, press -.

6 Repeat steps 4 and 5 to adjust the other lines until all three lines converge and are seen as a white cross.



7 Press MENU to return to the normal screen.

Watching the TV



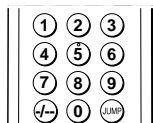
- 1 Press **⏻** to turn on the TV.



When the TV is turned on in the standby mode, the **⏻/⏻** indicator on the TV lights up. To turn on the TV completely, press **⏻** on the remote commander or the TV.

- 2 Select the TV program you want to watch.

To select a program position directly
Press the number button.



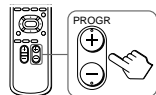
To select a two-digit program position, press “+/-” before the number buttons.

For example: to select program position 25, press “+/-,” then “2” and “5.”

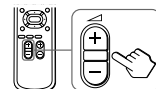


To scan through program positions

Press **PROGR +/-** on the remote commander or the TV until the program position you want appears.



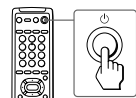
- 3 Press **Δ +/-** on the remote commander or the TV to adjust the volume.



Turning off the TV

To turn off the TV temporarily

Press **⏻** on the remote commander. The **⏻/⏻** indicator lights up.



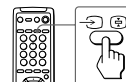
To turn off the TV completely

Press **⏻** on the TV.



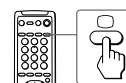
Watching the video input

Press **⏻** on the remote commander or **⏻** on the TV.



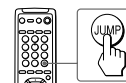
To watch TV

Press **⏻** on the remote commander or **⏻** on the TV.



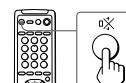
Switching back quickly to the previous channel

Press **JUMP**.



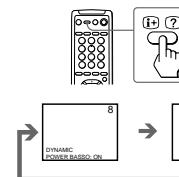
Muting the sound

Press **⏻**.



Displaying the on-screen information

Press **⏻** **?**.



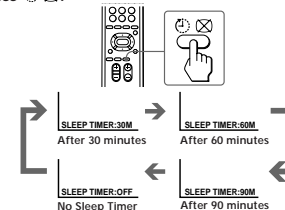
Note

- The on-screen display shows the program position or the video mode, the picture and sound information. The on-screen display for the picture and sound information disappears after being displayed for approximately three seconds.

Setting the Sleep Timer

You can set the TV to turn off automatically after the period of time you want.

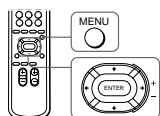
Press **⏻** **⏻**.



To cancel the Sleep Timer, press **⏻** **⏻** repeatedly until “SLEEP TIMER: OFF” appears, or turn the TV off.

Adjusting the picture and sound

Selecting the picture and sound modes

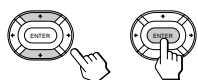


1 Press MENU.



2 Make sure the cursor (►) appears in the A/V CONTROL menu (⌘), and press ENTER.

3 Press ▲ or ▼ to move the cursor (►) to DYNAMIC, STANDARD, SOFT, or PERSONAL, and press ENTER.



Select	To
DYNAMIC	Receive high contrast picture with powerful sound.
STANDARD	Receive normal contrast picture with medium listening sound.
SOFT	Receive mild picture with soft sound.
PERSONAL	Receive the last picture and sound settings that are adjusted using VIDEO ADJUST and AUDIO ADJUST.

4 Press MENU to return to the normal screen.



Adjusting the picture settings (VIDEO ADJUST)

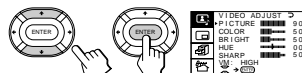
You can adjust the picture settings to suit your taste with the VIDEO ADJUST option. The adjusted settings are stored in the PERSONAL option.

1 Press MENU.



2 Make sure the cursor (►) appears in the A/V CONTROL menu (⌘), and press ENTER.

3 Press ▲ or ▼ to move the cursor (►) to VIDEO ADJUST, and press ENTER.



4 Press ▲ or ▼ to move the cursor (►) to the item you want to adjust, and press ENTER.

5 Press ▲/▼/◀/▶ to adjust the selected item, and press ENTER.

For details on each item, see "Description of adjustable items" below.

6 To adjust other items, repeat steps 4 and 5.

7 Press MENU to return to the normal screen.

Description of adjustable items

Item	Press ▲/▼	Press ▲/▼
PICTURE	Decrease picture contrast.	Increase picture contrast.
COLOR	Decrease color intensity.	Increase color intensity.
BRIGHT	Darken the picture.	Brighten the picture.
HUE	Make picture tones become reddish.	Make picture tones become greenish.
SHARP	Soften the picture.	Sharpen the picture.
VM	Decrease emphasis on picture edges.	Increase emphasis on picture edges.

Note

- You can adjust HUE for the NTSC color system only. (Note that you can't adjust the NTSC color system of the component inputs.)

If the picture is slightly snowy

You may try to improve the picture by changing the VM setting as described below:

- Display the VIDEO ADJUST menu.
- Press ▲ or ▼ to move the cursor (►) to VM, and press ENTER.
- Press ▲/▼/◀/▶ to select LOW, and press ENTER.

If the picture color is abnormal when receiving programs through the ㊦ (antenna) terminal

Change the color system or the TV system from the PRESET menu as described below until the color becomes normal.

- Display the PRESET menu.
- Press ▲ or ▼ to move the cursor (►) to COL SYS or TV SYS, and press ENTER.
- Press ▲/▼/◀/▶ to change the color system or the TV system until the color becomes normal, and press ENTER.

Note

- Normally set the color system (COL SYS) to AUTO.

Adjusting the sound settings (AUDIO ADJUST)

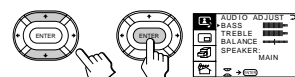
You can adjust the sound settings to suit your taste with the AUDIO ADJUST option. The adjusted settings are stored in the PERSONAL option.

1 Press MENU.



2 Make sure the cursor (►) appears in the A/V CONTROL menu (⌘), and press ENTER.

3 Press ▲ or ▼ to move the cursor (►) to AUDIO ADJUST, and press ENTER.



4 Press ▲ or ▼ to move the cursor (►) to the item you want to adjust, and press ENTER.

5 Press ▲/▼/◀/▶ to adjust the selected item, and press ENTER.

For details on each item, see "Description of adjustable items" below.

6 To adjust other items, repeat steps 4 and 5.

7 Press MENU to return to the normal screen.

Description of adjustable items

Item	Press ▲/▼	Press ▲/▼
BASS	Decrease the bass sound.	Increase the bass sound.
TREBLE	Decrease the treble sound.	Increase the treble sound.
BALANCE	Increase the left speaker's volume	Increase the right speaker's volume.

If the sound is distorted or noisy when receiving programs through the ㊦ (antenna) terminal

Change the TV system from the PRESET menu as described below until the sound becomes normal.

- Display the PRESET menu.
- Press ▲ or ▼ to move the cursor (►) to TV SYS, and press ENTER.
- Press ▲/▼/◀/▶ to change the TV system until the sound becomes normal, and press ENTER.

Setting the speaker

If you connect a Dolby Pro Logic-compatible amplifier to the center speaker terminals, you can use the projection TV speakers as center speakers.

1 Press MENU.

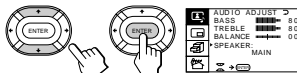


2 Make sure the cursor (►) appears in the A/V CONTROL menu (A), and press ENTER.

3 Press ▲ or ▼ to move the cursor (►) to AUDIO ADJUST, and press ENTER.



4 Press ▲ or ▼ to move the cursor (►) to SPEAKER, and press ENTER.



5 Press ▲/▼/◀/▶ to set the speaker, and press ENTER.

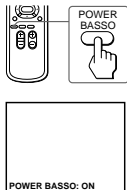
To use the projection TV speakers as center speakers, select CENTER IN.
To listen to the sound from a projection TV, select MAIN.

6 Press MENU to return to the normal screen.

Listening with dynamic sound (POWER BASSO)

The POWER BASSO sound mode enables you to enjoy a high quality sound with the best combination of all types of sound. It reproduces dynamic and clear sounds and emphasizes low and high audio effects as well.

Press POWER BASSO.



The sound mode of the TV program or the video input changes to the POWER BASSO sound.

To cancel the POWER BASSO mode

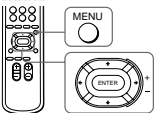
Press POWER BASSO again.

Note

- You can select any of the surround sound modes (HYPER SURROUND) to cancel the POWER BASSO sound.

Listening to the surround sound (HYPER SURROUND)

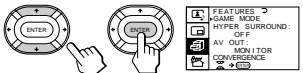
The HYPER SURROUND feature enables you to enjoy a surround sound effect that is like being in a concert hall or movie theater when receiving stereo signals.



1 Press MENU.



2 Press ▲ or ▼ to move the cursor (►) to the FEATURES menu (F), and press ENTER.



3 Press ▲ or ▼ to move the cursor (►) to HYPER SURROUND, and press ENTER.

4 Press ▲/▼/◀/▶ to select MOVIE, MUSIC, NEWS(BBE), HALL(SRS) or SPACE, and press ENTER.



For details on each item, see "Description of adjustable items" below.

5 Press MENU to return to the normal screen.

Description of adjustable items

Select	To
MOVIE	Listen to a sound that emphasizes the bass audio effect of movie theater.
MUSIC	Listen to a dynamic and clear sound that emphasizes the low and high audio sounds.
NEWS(BBE)	Listen to a sound that emphasizes voice.
HALL(SRS)	Listen to a sound that spreads out over a large area, giving the feeling of being at a concert hall.
SPACE	Listen to a monaural sound that gives a stereo-like effect.
OFF	Turn off the surround sound.

Notes

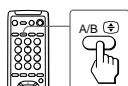
- The BBE is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and the BBE symbol are the trademarks of BBE Sound, Inc.
- The (●) SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. The word "SRS" and the SRS symbol (●) are registered trademarks of SRS Labs, Inc.

Selecting a stereo or bilingual program

You can enjoy stereo sound or bilingual programs of NICAM and A2 (German) stereo systems.

Press **A/B** repeatedly until you receive the sound you want.

The on-screen display changes corresponding to the selected sound and the  indicator also lights up.



When receiving a NICAM program

Broadcasting	On-screen display (Selected sound)
NICAM stereo	<div> <div>NICAM (Stereo sound)</div> <div>MONO (Regular sound)</div> </div>
NICAM bilingual	<div> <div>NICAM MAIN (Main sound)</div> <div>NICAM SUB (Sub sound)</div> <div>MONO (Regular sound)</div> </div>
NICAM monaural	<div> <div>NICAM MAIN (Main sound)</div> <div>MONO (Regular sound)</div> </div>

When receiving an A2 (German) program


Broadcasting	On-screen display (Selected sound)
A2 (German) stereo	<div> <div>MONO (Regular sound)</div> <div>STEREO (Stereo sound)</div> </div>
A2 (German) bilingual	<div> <div>MAIN (Main sound)</div> <div>SUB (Sub sound)</div> </div>


Receiving area for NICAM and A2 (German) programs

System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, Malaysia, Thailand, etc.
A2 (German)	Australia, Malaysia, Thailand, etc.

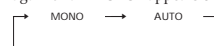
Notes

- If the signal is very weak, the sound becomes monaural.
- If the stereo sound is noisy when receiving a NICAM program, select "MONO." The sound becomes monaural, but the noise is reduced.

If the sound is distorted or noisy when receiving a monaural program through the  (antenna) terminal

Press **A/B** repeatedly until "MONO" appears on the screen while the  indicator is off.

To cancel the monaural sound setting, press **A/B** again until "AUTO" appears on the screen.



Notes

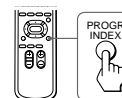
- The "MONO" or "AUTO" setting memorized for each program position.
- You cannot receive stereo broadcast signal when the TV is in the "MONO" setting.

Viewing multiple programs at the same time (PROGRAM INDEX)

The PROGRAM INDEX feature allows you to view all the preset TV programs and the video inputs on the nine sub screens at the same time.

You can view multiple programs on the nine sub screens using the button on the remote commander or the menu.

Press **PROGR INDEX**.



The first nine preset programs appear on the nine sub screens.


>>> 1	2	3
4	5	6
7	8	9


To view the next or the previous nine preset programs on the nine sub screens

Press **PROGR +/-** on the remote commander or the TV.


>>> 10	11	12
V1	V2	V3
1	2	3

To select the program you want to watch directly after viewing multiple programs

Press the number buttons, , or press

 to move the cursor (>>>) to the screen of the program you want to watch, and press **ENTER**.

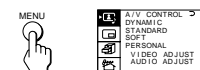
To restore the normal screen




Press **PROGR INDEX** again or .

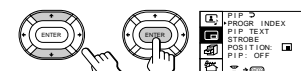
You can also select **PROGR INDEX** or **PIP : OFF** from the **PIP** menu, and press **ENTER** to restore the normal screen.

To view multiple programs on the nine sub screens using the menu

1 Press **MENU**.



2 Press  or  to move the cursor (▶) to the **PIP** menu () and press **ENTER**.



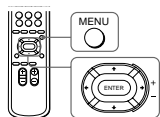
3 Make sure the cursor (▶) appears beside **PROGR INDEX**, and press **ENTER**.

Notes

- You can change the position of the nine sub screens using the **PIP** menu (see "Changing the position of the PIP screen" on page 27).
- You can hear the sound of the main screen when viewing multiple programs on the nine sub screens.
- You can use the number buttons on the remote commander to change the program position of the main screen when viewing multiple programs on the nine sub screens.

Displaying frame-by-frame pictures (STROBE)

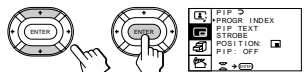
You can watch a slow motion movement of the main screen picture which is displayed frame-by-frame on the nine sub screens.



1 Press MENU.



2 Press \blacktriangleleft or \blacktriangleright to move the cursor (\blacktriangleright) to the PIP menu (PIP), and press ENTER.



3 Press \blacktriangleleft or \blacktriangleright to move the cursor (\blacktriangleright) to STROBE, and press ENTER.



To restore the normal screen

Select STROBE again or PIP : OFF from the PIP menu, and press ENTER.

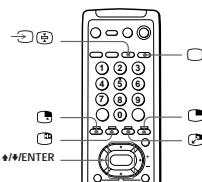
You can also press \square , \blacktriangleleft , \blacktriangleright , \blacktriangleleft , \blacktriangleright , \blacktriangleleft , \blacktriangleright , or \square to restore the normal screen.

Notes

- You can change the position of the nine sub screens using the PIP menu (see "Changing the position of the PIP screen" on page 27).
- You can hear the normal sound when using the STROBE feature.

Using the Picture-in-Picture (PIP) features

With the Picture-in-Picture (PIP) feature, you can display a sub screen within the main picture of different TV programs or video inputs.



Displaying the PIP screen

You can display the PIP screen using the button on the remote commander or the menu.

Press \square .



Selecting a TV program or video input in the PIP screen

To select a TV program, press \blacktriangleleft or \blacktriangleright , and press ENTER.

To select a video input, press \square on the remote commander or \square on the TV.

To display the PIP screen using the menu

1 Press MENU.

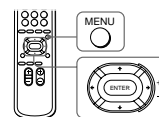
2 Press \blacktriangleleft or \blacktriangleright to move the cursor (\blacktriangleright) to the PIP menu (PIP), and press ENTER.

3 Press \blacktriangleleft or \blacktriangleright to move the cursor (\blacktriangleright) to PIP, and press ENTER.

4 Press \blacktriangleleft or \blacktriangleright to select ON, and press ENTER.

5 Press MENU to return to the normal screen.

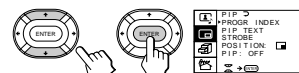
Changing the position of the PIP screen



1 Press MENU.

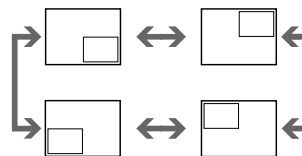


2 Press \blacktriangleleft or \blacktriangleright to move the cursor (\blacktriangleright) to the PIP menu (PIP), and press ENTER.



3 Press \blacktriangleleft or \blacktriangleright to move the cursor (\blacktriangleright) to POSITION, and press ENTER.

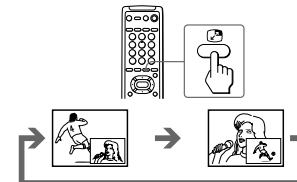
4 Press \blacktriangleleft or \blacktriangleright to select the position you want, and press ENTER.



5 Press MENU to return to the normal screen.

Swapping pictures between the main and PIP screens

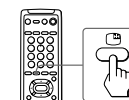
Press \square .



Freezing the PIP screen

Press \square .

The PIP screen will freeze.



To restore the normal screen

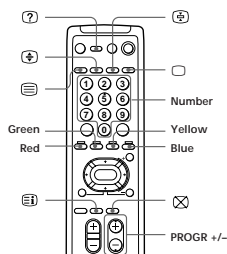
Press \square again.

Notes

- When you display a video input on the PIP screen at any speed other than the normal one, the picture may be disrupted, depending on the VCR.
- If you display different color systems on the main screen and the PIP screen, the size of the PIP screen may be different and the PIP picture may be disrupted. This does not indicate a malfunction of the TV.

Viewing Teletext

TV stations broadcast an information service called Teletext via a TV channel. Teletext service allows you to receive various information such as weather forecasts or news at any time.



Displaying Teletext

- 1 Select a TV channel that carries the Teletext broadcast you want to watch.
- 2 Press **[0]** to display the Teletext. A Teletext page (normally the index page) is displayed. If there is no Teletext broadcast, "100" is displayed at the top left corner of the screen.

To turn off Teletext
Press **[0]**.

Superimposing a Teletext page on the TV picture

Press **[0]**.
Each time you press **[0]**, the screen changes as follows:



Checking the contents of a Teletext service (INDEX)

Press **[0]** to display an overview of the Teletext contents and page numbers.

Using FASTEXT

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT program is broadcasted, the colored menus appear at the bottom of the screen. The colors of the menus correspond to the red (**[0]**), green (**[0]**), yellow (**[0]**), and blue (**[0]**) colored-coded buttons on the remote commander.

To access a FASTEXT menu
Press the color-coded button on the remote commander that corresponds to the colored menu which appears at the bottom of the screen. The menu page appears on the screen after several seconds.

Selecting a Teletext page

Press the number buttons to enter the three-digit page number of the Teletext page you want.
If you make a mistake, re-enter the correct page number.

To access the next or previous page
Press **PROGR +/-**.

You can also access a Teletext page of any page numbers that appear in the colored column at the bottom of the screen using the corresponding color-coded button on the remote commander.

Holding a Teletext page (HOLD)

A Teletext page may consist of several subpages. You can stop the page scrolling in order to read the text at your own pace.

Press **[0]**.
The HOLD symbol "H" appears at the top left corner of the screen.

To resume normal Teletext operation
Press **[0]** again or **[0]**.

Revealing concealed information (REVEAL)

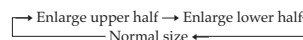
The REVEAL option lets you disclose concealed information, such as an answer to a quiz that you find on some of the Teletext pages.

Press **[0]**.

To conceal the information
Press **[0]** again.

Enlarging the Teletext display (ENLARGE)

Press **[0]**.
Each time you press **[0]**, the Teletext display changes as follows:



Waiting for a Teletext page while watching a TV program (TEXT CLEAR)

- 1 Enter the page number of the Teletext that you want to refer to, then press **[0]**.
- 2 When the page number is displayed on the screen, press **[0]** to turn on the Teletext.

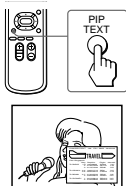
Displaying Teletext on the PIP screen (PIP TEXT)

The PIP TEXT feature enables you to display a Teletext page on the PIP screen while watching a TV program.

You can display the Teletext on the PIP screen using the button on the remote commander or the menu.

- 1 Select a TV channel that carries the Teletext broadcast you want to watch.

- 2 Press PIP TEXT.

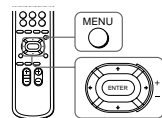


To restore the normal screen

Press PIP TEXT again, or press \square , \rightarrow (PIP), or PROGR +/-.

You can also select PIP : OFF from the PIP menu, and press ENTER to restore the normal screen.

To display a Teletext page on the PIP screen using the menu



- 1 Press MENU.



- 2 Press \uparrow or \downarrow to move the cursor (\blacktriangleright) to the PIP menu (\square), and press ENTER.



- 3 Press \uparrow or \downarrow to move the cursor (\blacktriangleright) to PIP TEXT, and press ENTER.

- 4 Press \leftarrow / \rightarrow / \uparrow / \downarrow to select the Teletext page you want to watch.

Notes

- You can also use the color-coded buttons (see page 28) while displaying a Teletext page on the PIP screen.
- To select a Teletext page on the PIP screen, press \leftarrow / \rightarrow / \uparrow / \downarrow once only. If you press \leftarrow / \rightarrow / \uparrow / \downarrow continuously, the Teletext page numbers also change continuously at a fast speed.
- You can change the position of a Teletext page on the PIP screen using the PIP menu (see "Changing the position of the PIP screen" on page 27).

Viewing a video game screen (GAME MODE)

The GAME MODE feature optimizes the video game screen by giving a soft picture and dynamic sound effect.

You can display a video game screen using the button on the remote commander or the menu.

Press GAME.



The picture and sound change to the mode that is suitable for video games.

To view a video game screen using the menu

- 1 Press MENU.



- 2 Press \uparrow or \downarrow to move the cursor (\blacktriangleright) to the FEATURES menu (\square), and press ENTER.



- 3 Make sure the cursor (\blacktriangleright) appears beside GAME MODE, and press ENTER.

To restore the normal picture and sound modes



Press \square , \rightarrow (PIP), or PROGR +/-.

Notes

- If you press the GAME button when the TV is in the standby mode, the TV turns on automatically and the picture and sound change to the mode that is suitable for video games.
- To display a video game screen, connect the video game equipment to the \rightarrow 3 (video input) jacks at the front or the rear of the TV.

Customizing the TV

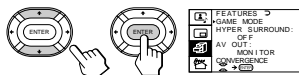
Using the AV OUT (advanced rec-out) terminal

You can select the output signal from the  (monitor/TV output) jacks at the rear of the TV. However, the signals of the PROGRAM INDEX, STROBE, PIP modes, the signals from the  (component video input) jacks, and the Teletext broadcast cannot be output even though MONITOR is selected.

1 Press MENU.



2 Press or to move the cursor () to the FEATURES menu () and press ENTER.





3 Press or to move the cursor () to AV OUT, and press ENTER.

4 Press / to select the output signal, and press ENTER.

Select	To
TV	Output the signal of the TV broadcast.
MONITOR	Output the signal of the picture you are watching as a main picture.

Notes

- Do not change the channel while recording with a VCR through the  (monitor/TV output) jacks. If you change the channel, it also changes the channel you are recording.
- When the signals from the  (component video input) jacks are displayed on the main screen, the signals can't be output even though MONITOR is selected.

Additional Information

Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.
If the problem persists, contact your nearest Sony dealer or authorized service center.

Snowy picture Noisy sound



- Check the antenna.
- Check the antenna connection on the TV and on the wall.
- Check the TV system (TV SYS) setting.
- Check the ATT (attenuator) setting.

Dotted lines or stripes



- This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.). Adjust the antenna for minimum interference.

Double images or "ghosts"



- This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.



Good picture Noisy sound



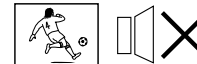
- Check the TV system (TV SYS) setting.




No picture No sound



- Press .
- Press  to turn off the TV for about five seconds and then turn it on again.
- Check the power cord connection.
- Check the antenna connection.
- Check the VCR connections.

Good picture No sound




- Press  +.
- If "CENTER IN" is displayed on the screen, select "SPEAKER: MAIN" of the AUDIO ADJUST menu.
- Press .
- Press A/B .

No color



- Adjust the COLOR level in the VIDEO ADJUST menu of the PERSONAL option.
- Check the color system (COL SYS) setting.

TV cannot receive stereo broadcast signal

- Press A/B  until "AUTO" appears on the screen.

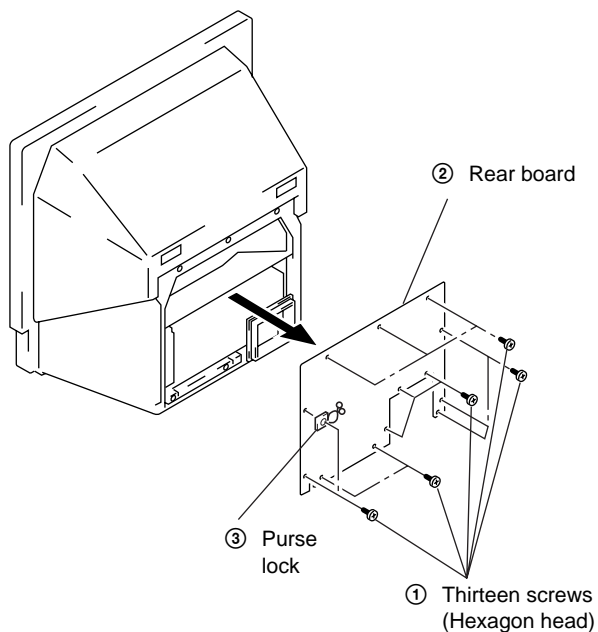
TV cabinet creaks

- Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.

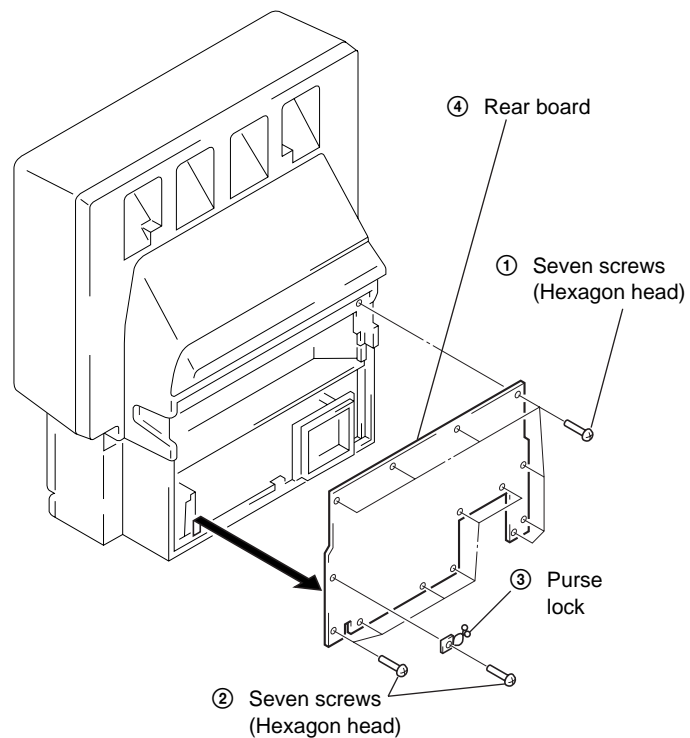
SECTION 2 DISASSEMBLY

2-1. REAR BOARD REMOVAL

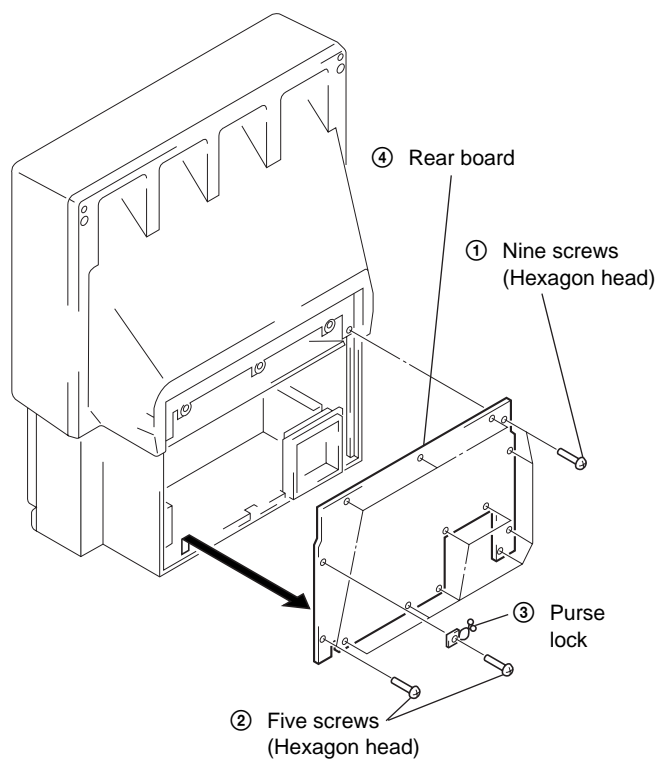
• KP-EF41



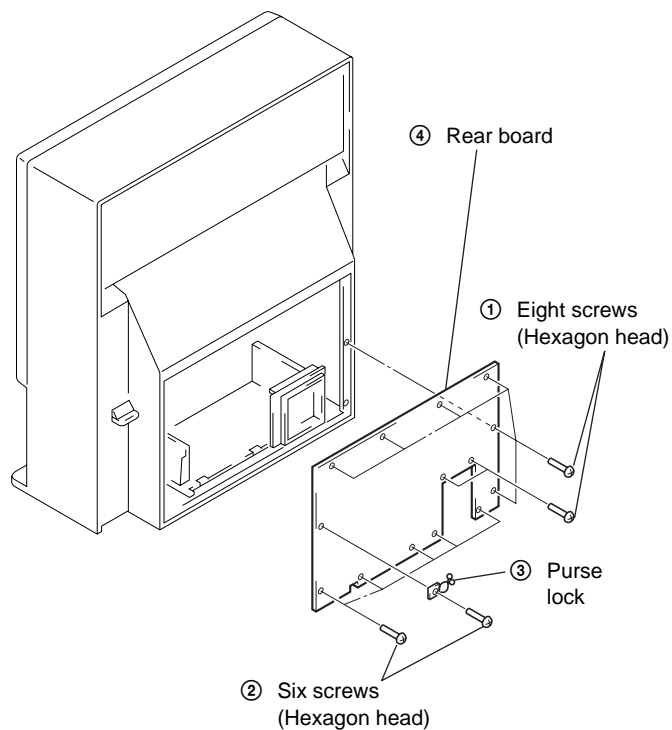
• KP-EF53



• KP-EF48

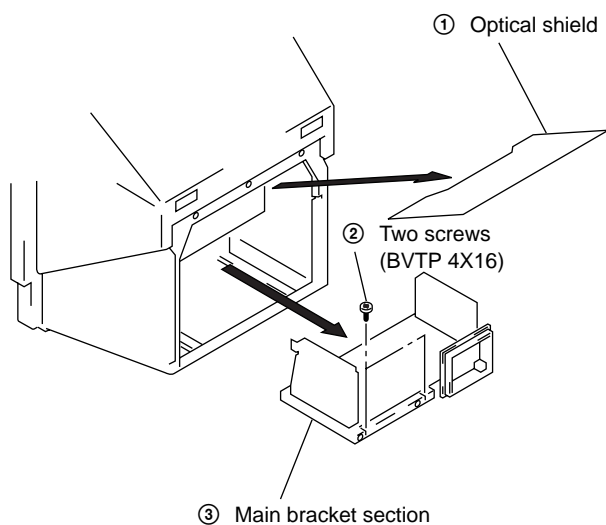


• KP-EF61

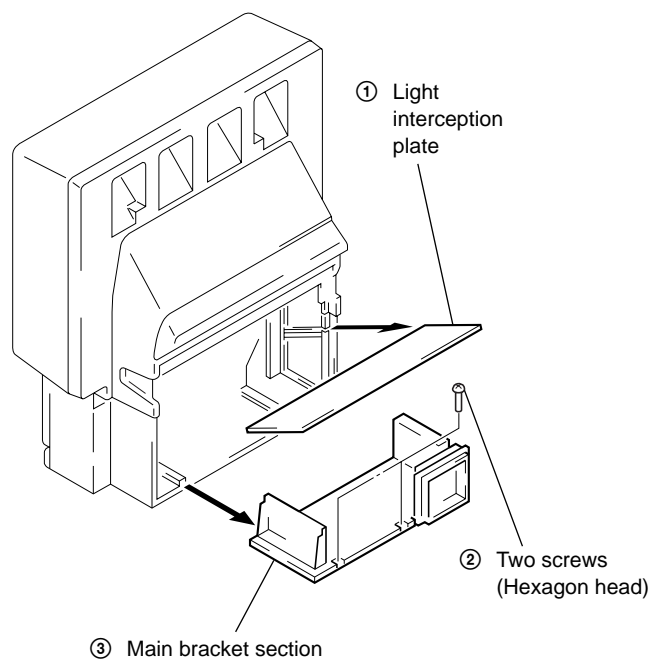


2-2. MAIN BRACKET SECTION REMOVAL

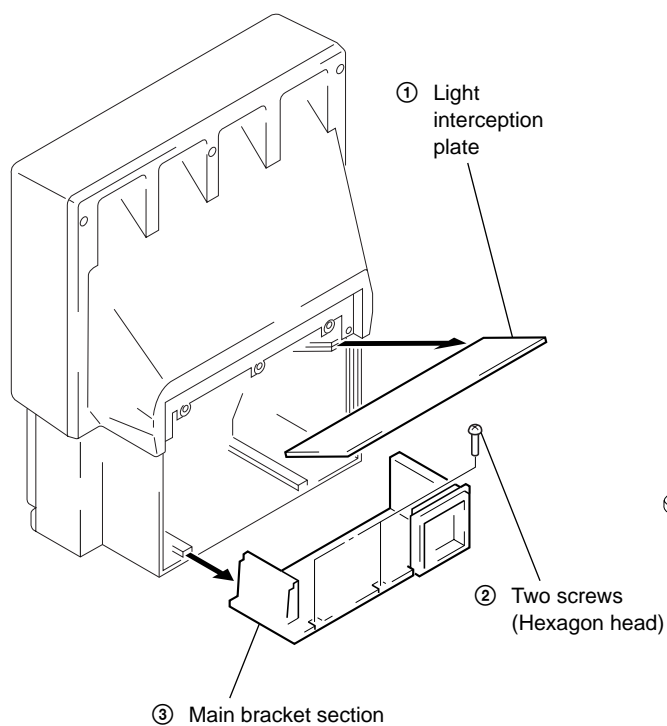
• KP-EF41



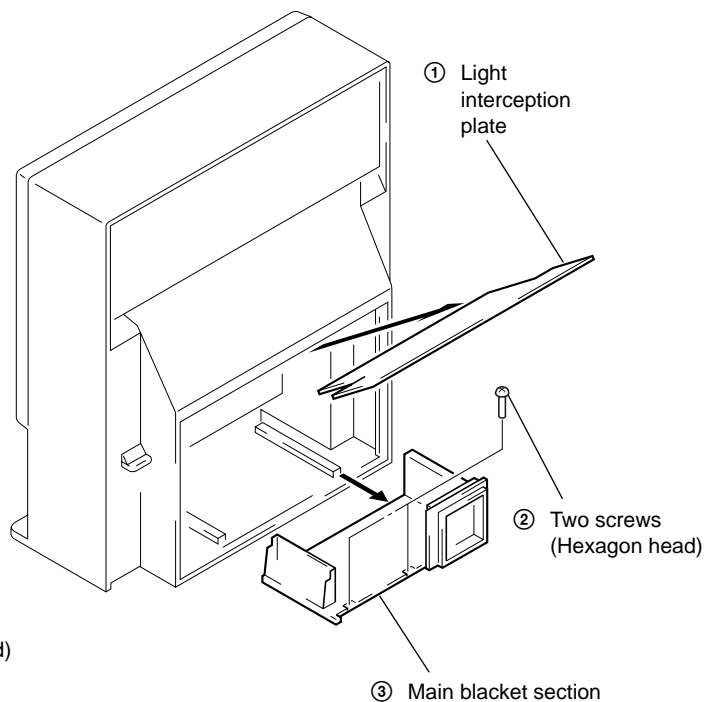
• KP-EF53



• KP-EF48

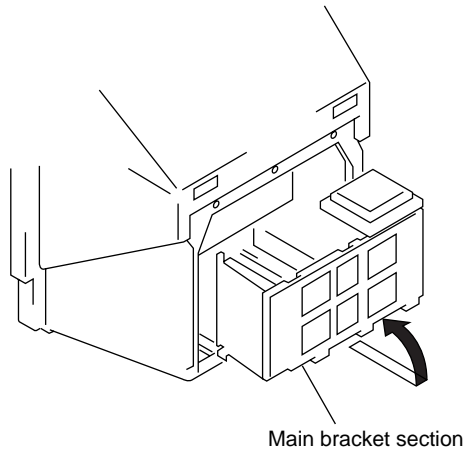


• KP-EF61

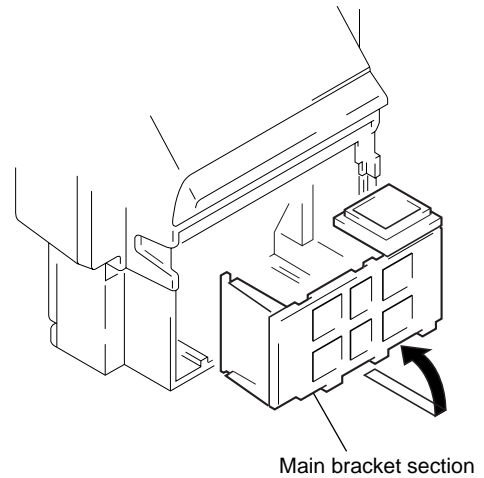


2-3. SERVICE POSITION

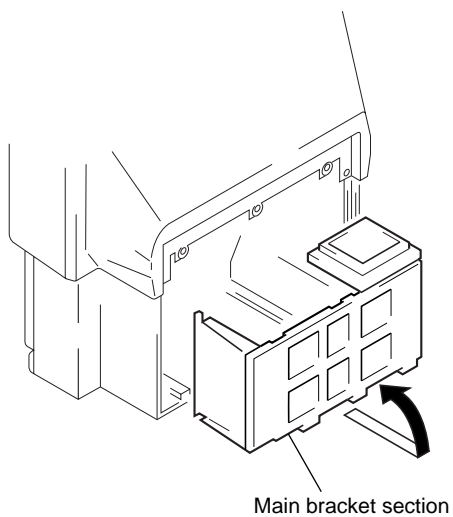
• KP-EF41



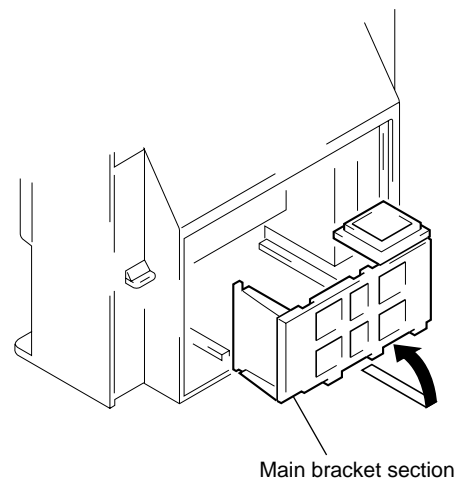
• KP-EF53



• KP-EF48

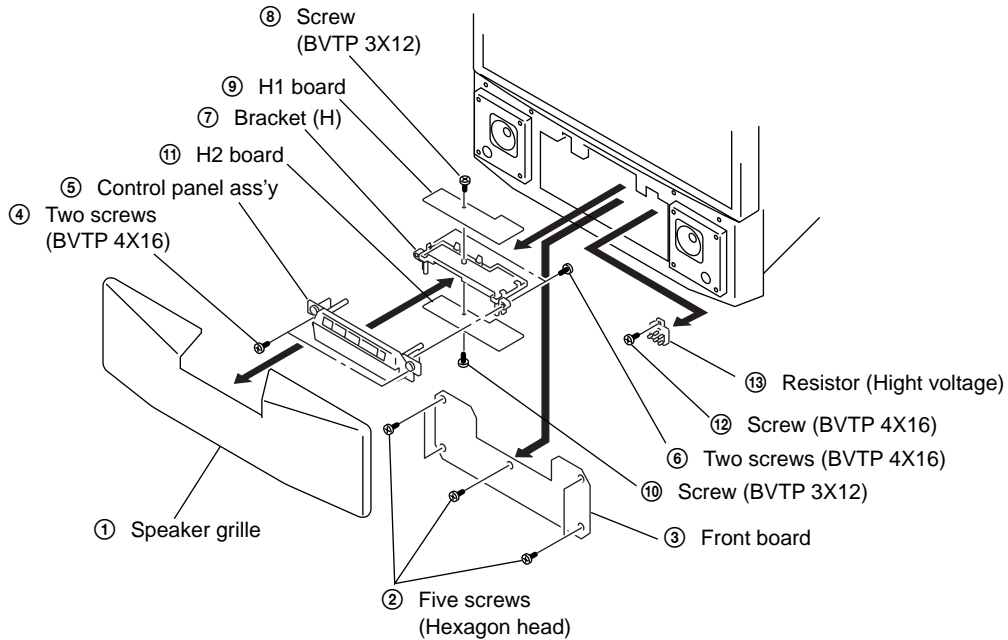


• KP-EF61

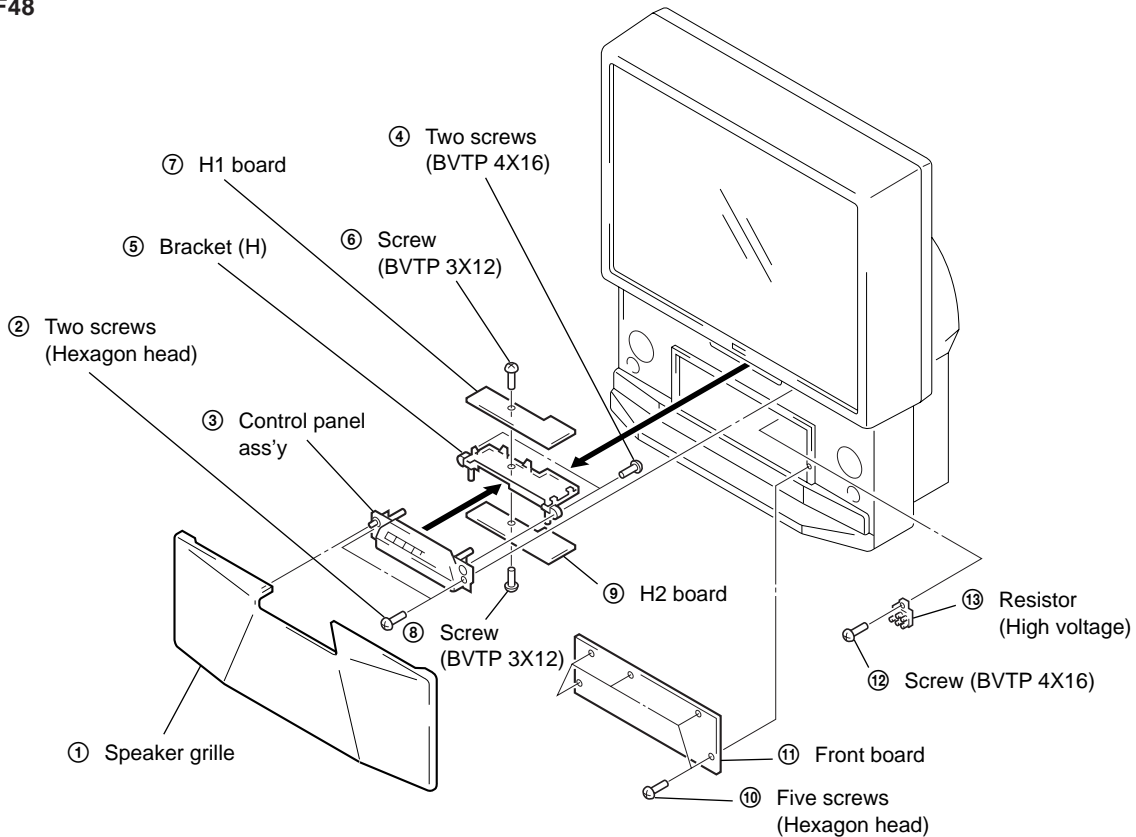


2-4. H1 BOARD, H2 BOARD AND RESISTOR (HIGH VOLTAGE) REMOVAL

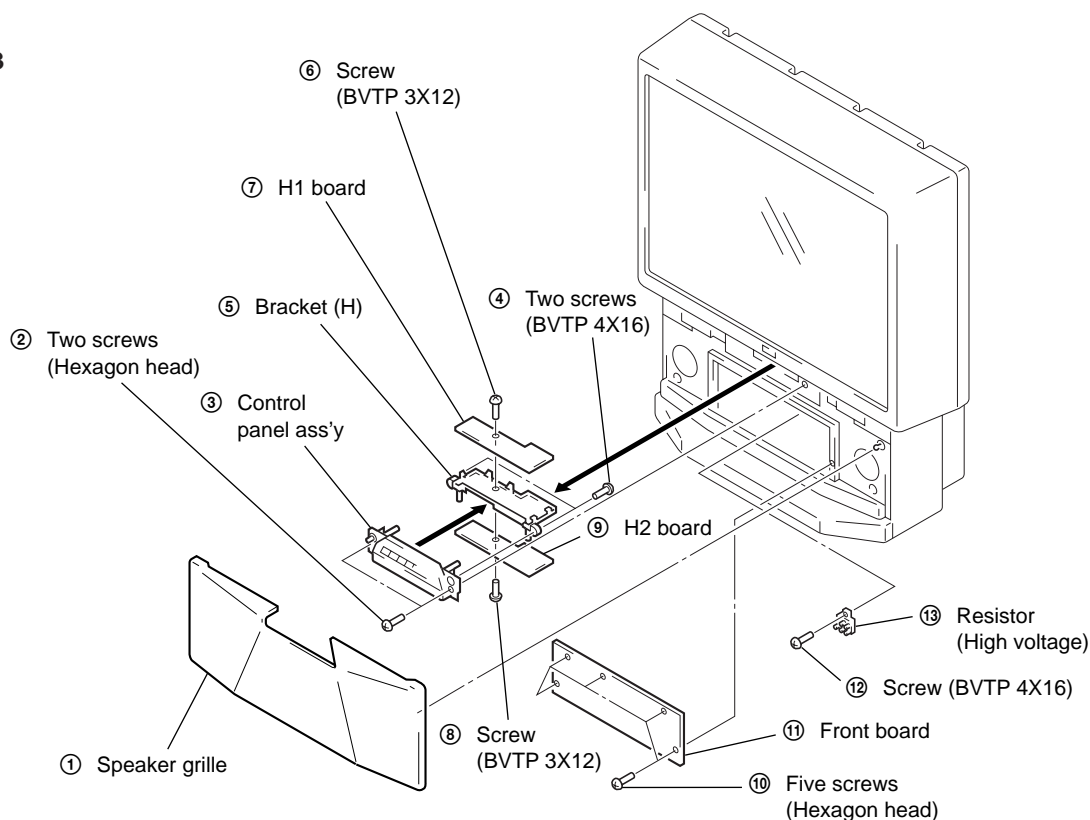
• KP-EF41



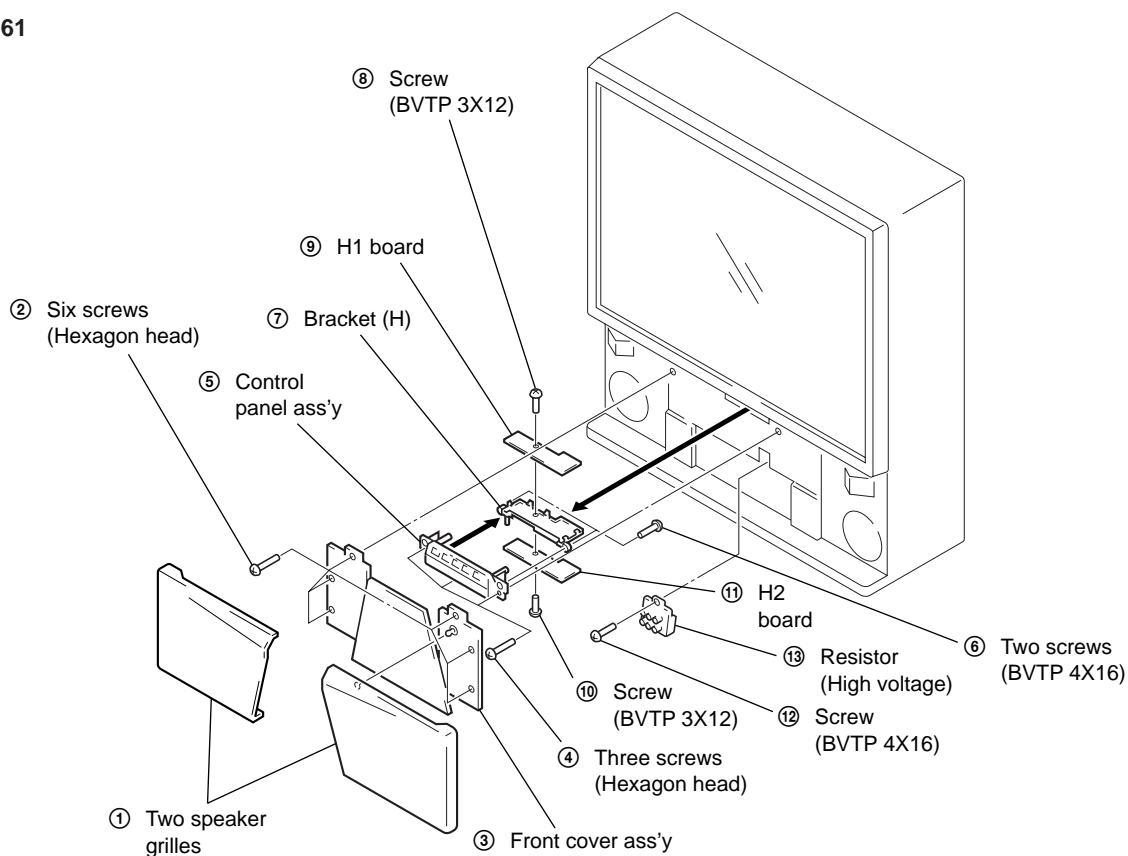
• KP-EF48



• KP-EF53

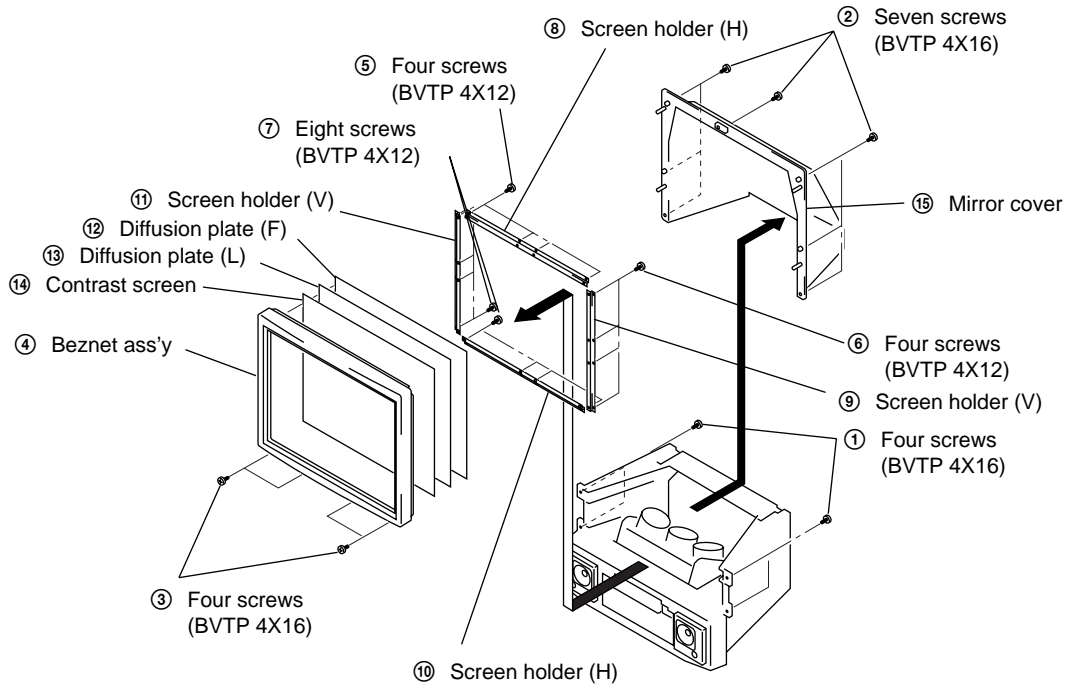


• KP-EF61

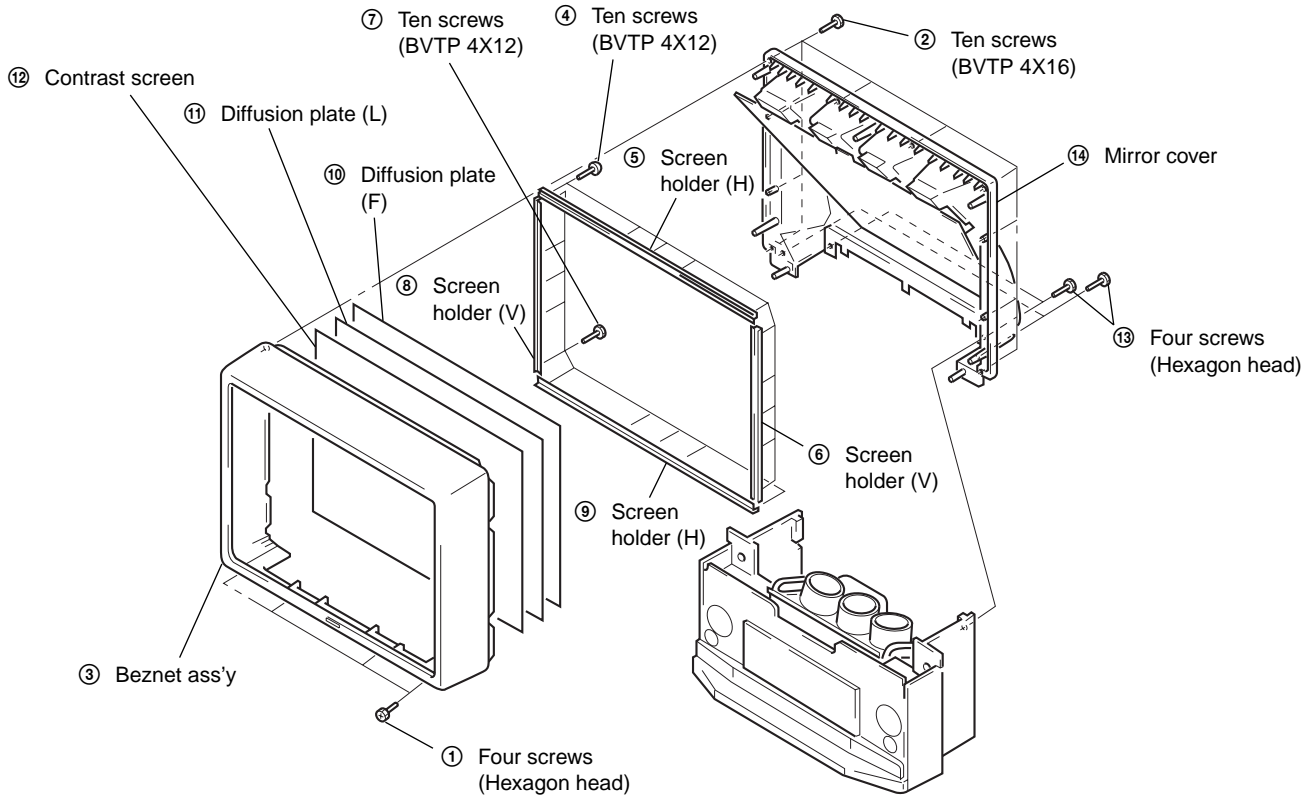


2-5. BEZNET SECTION REMOVAL

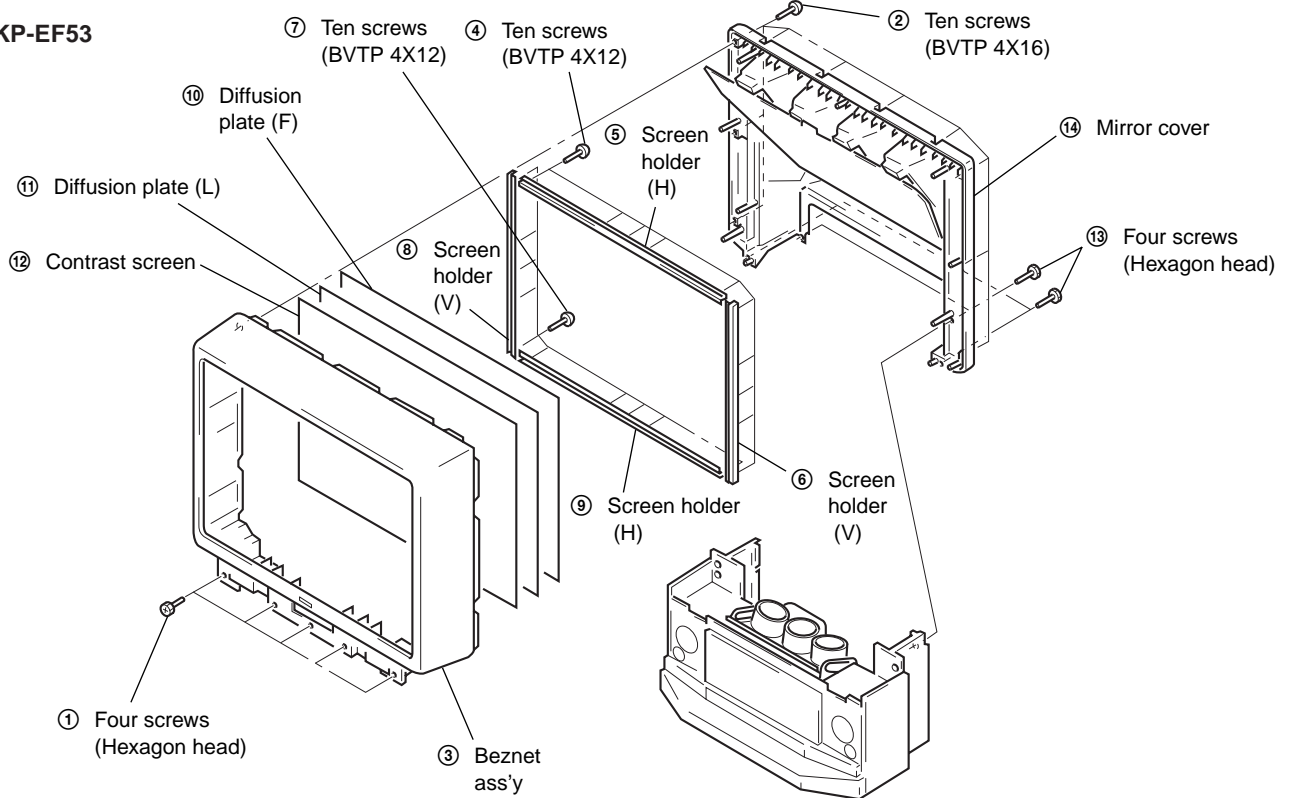
• KP-EF41



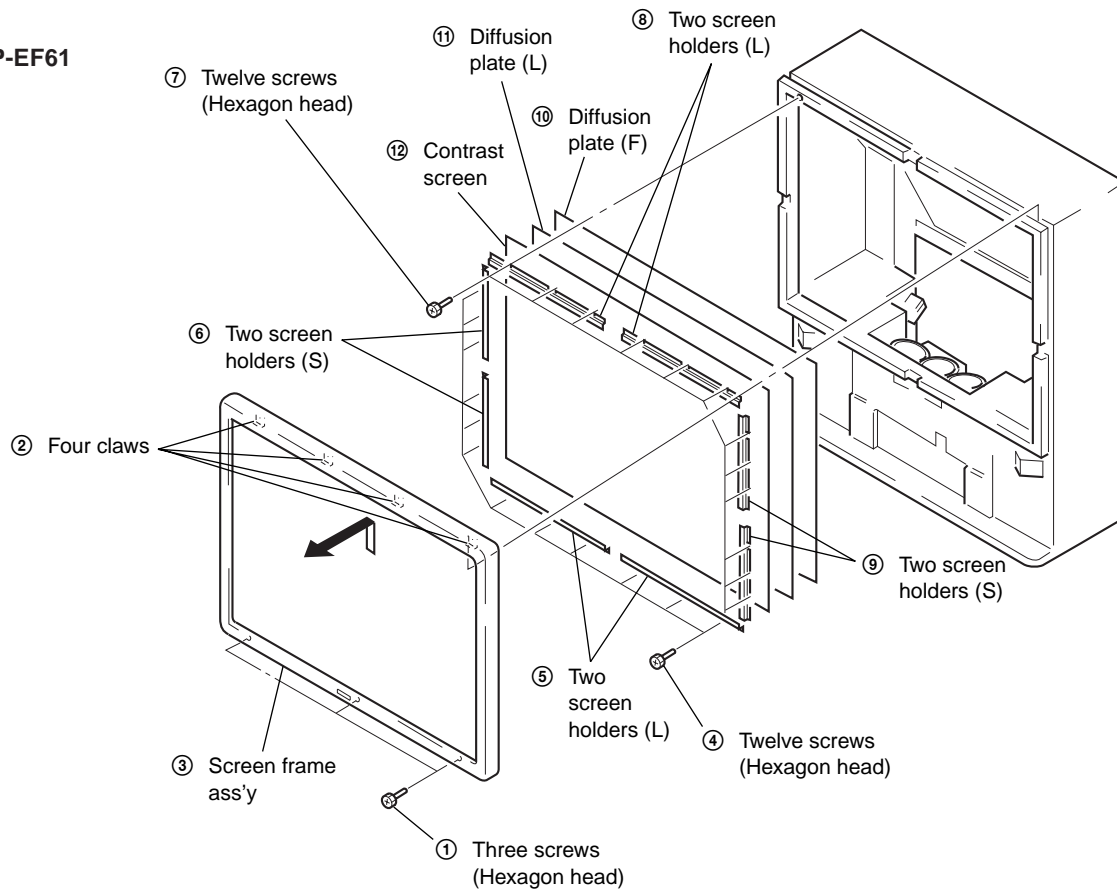
• KP-EF48



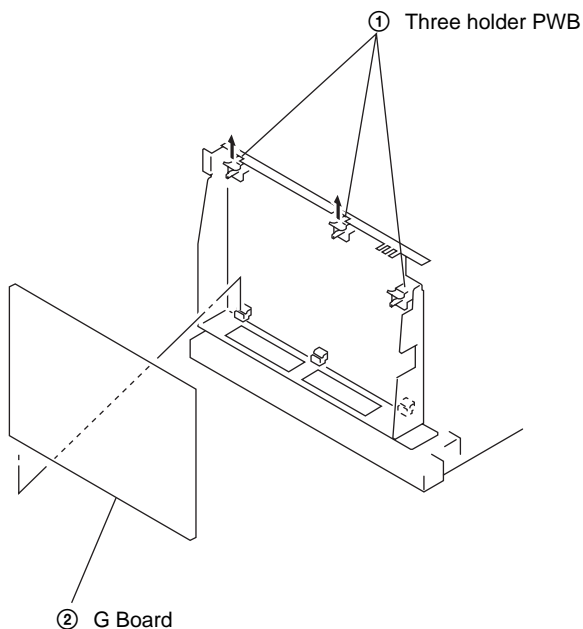
• KP-EF53



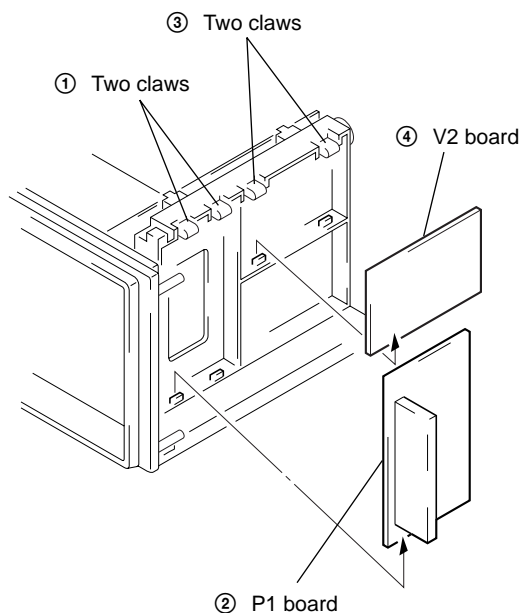
• KP-EF61



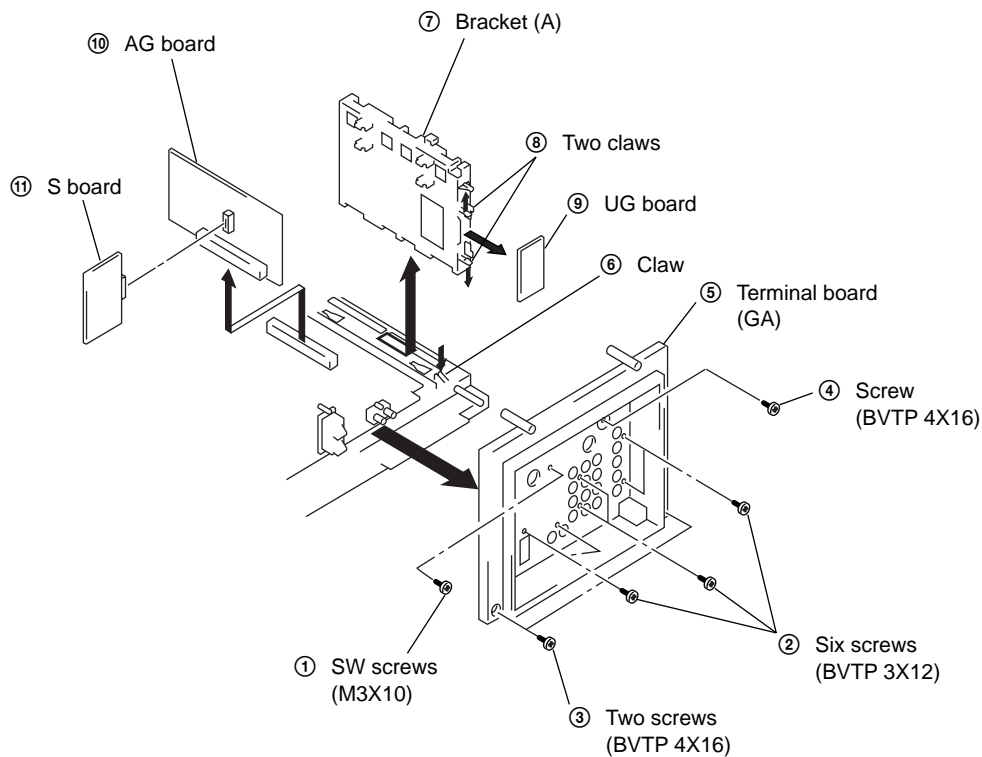
2-6. G BOARD REMOVAL



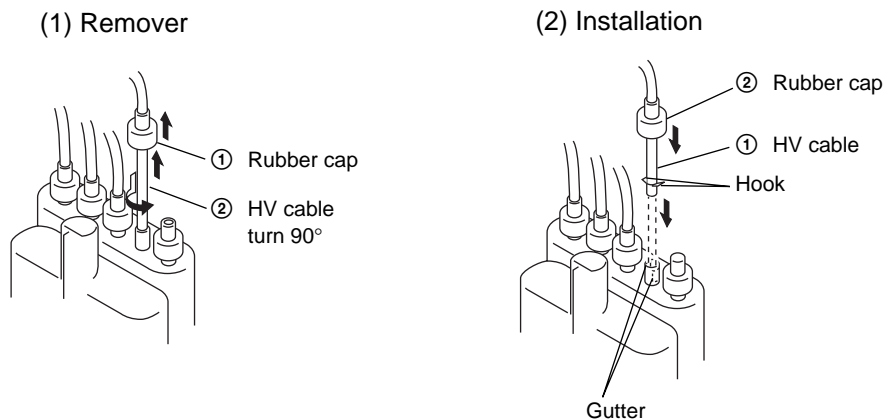
2-7. P1 BOARD AND V2 BOARD REMOVAL



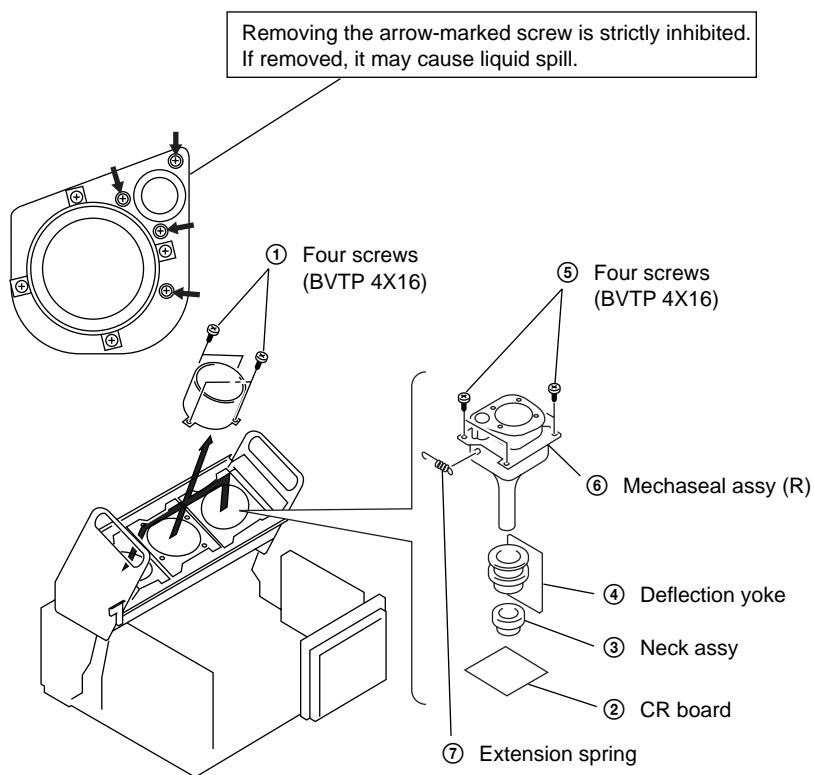
2-8. UG BOARD, AG BOARD AND S BOARD REMOVAL



2-9. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL



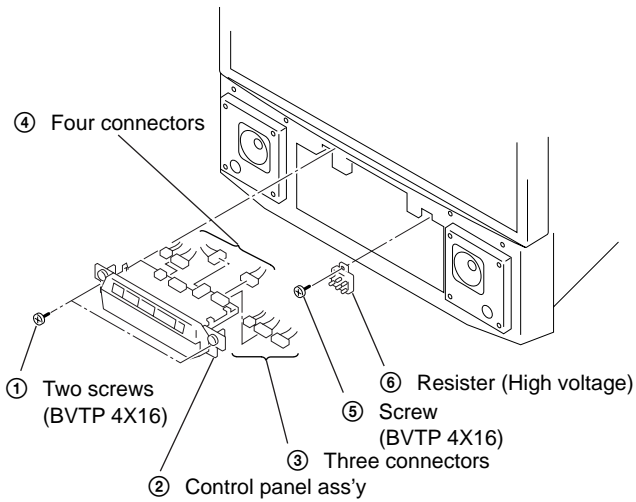
2-10. MECHASEL ASSY REMOVAL



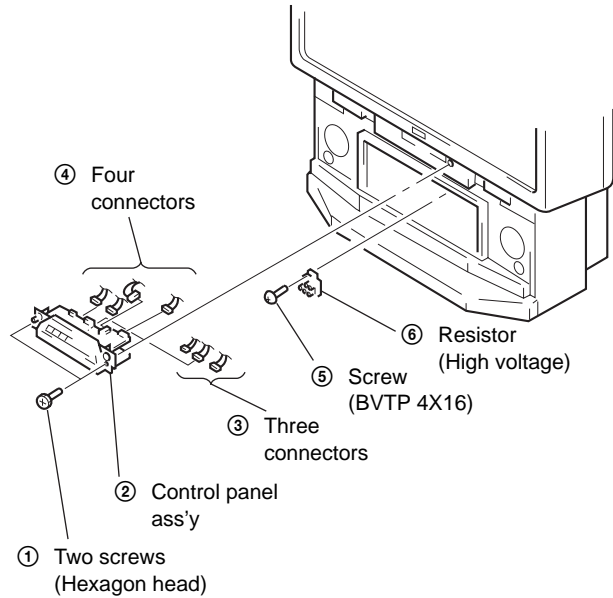
2-11. CHASSIS BLOCK REMOVAL

(1) H1, H2 BOARDS AND RESISTOR REMOVAL

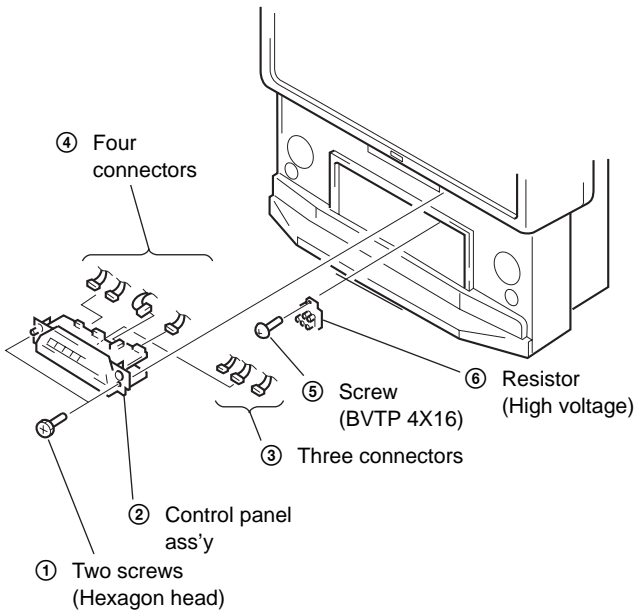
• KP-EF41



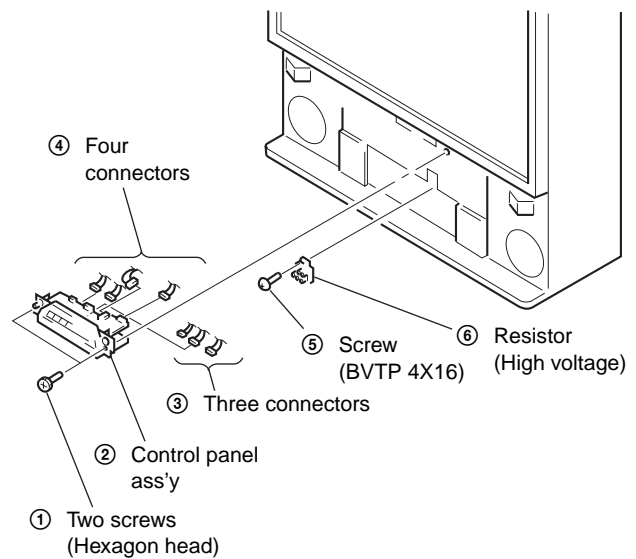
• KP-EF53



• KP-EF48



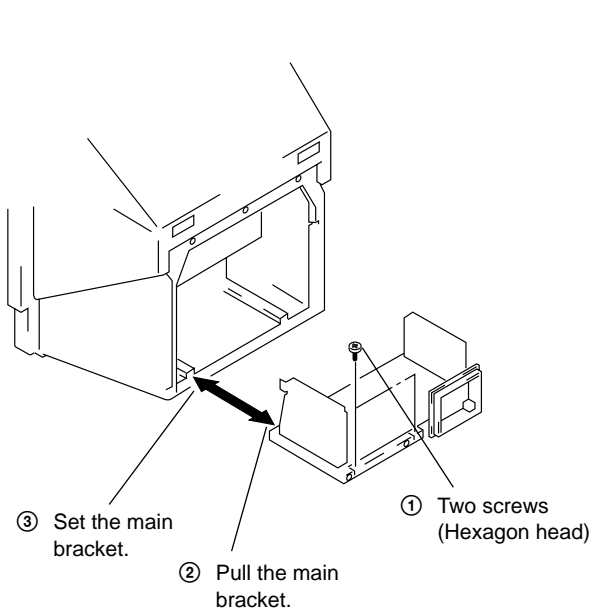
• KP-EF61



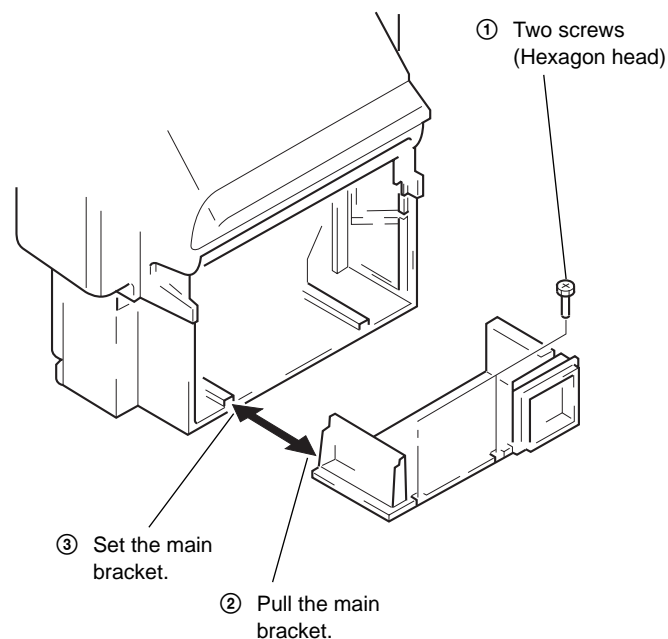
(2) MAIN BRACKET REMOVAL

* Pay particular attention to the wires of each PCB when pulling out the main bracket.

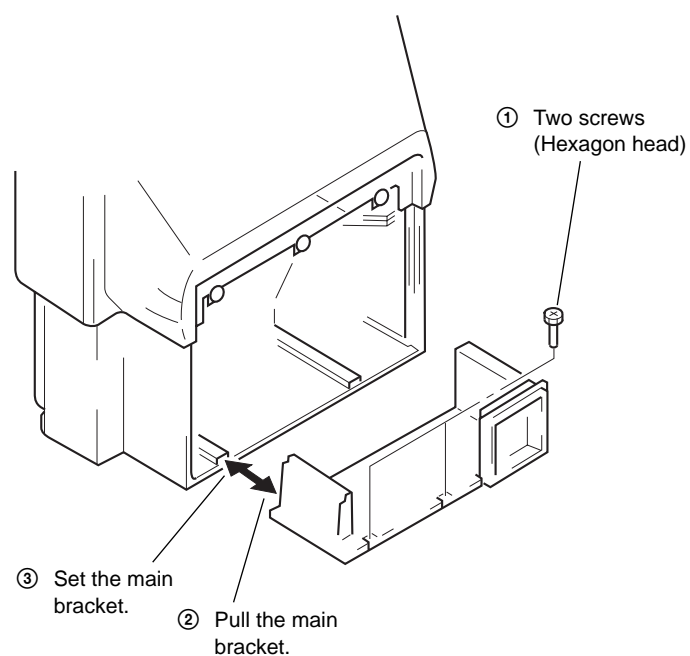
• KP-EF41



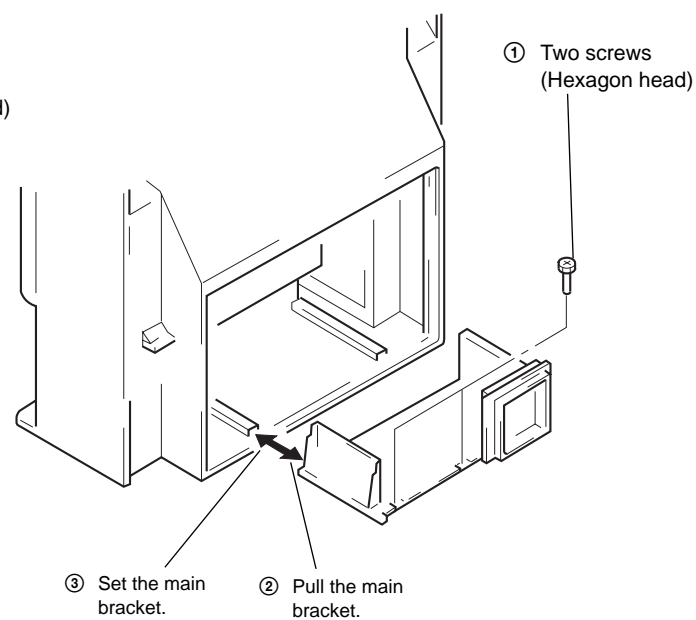
• KP-EF53



• KP-EF48



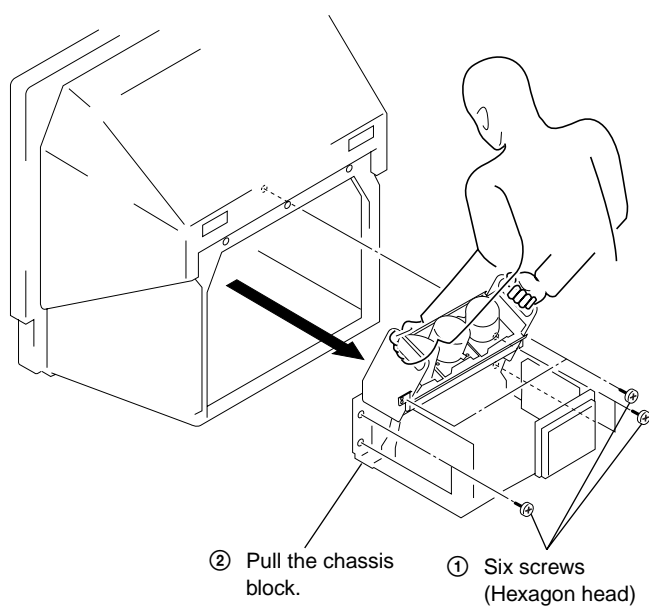
• KP-EF61



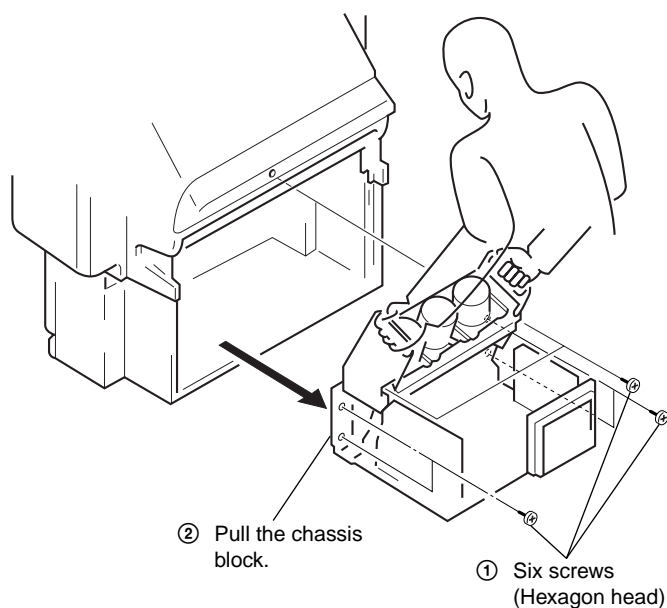
(3) CHASSIS BLOCK REMOVAL

* Pull out the chassis block by gripping the handles as shown in the diagram.
At this time, pay particular attention to the components removed in (1).

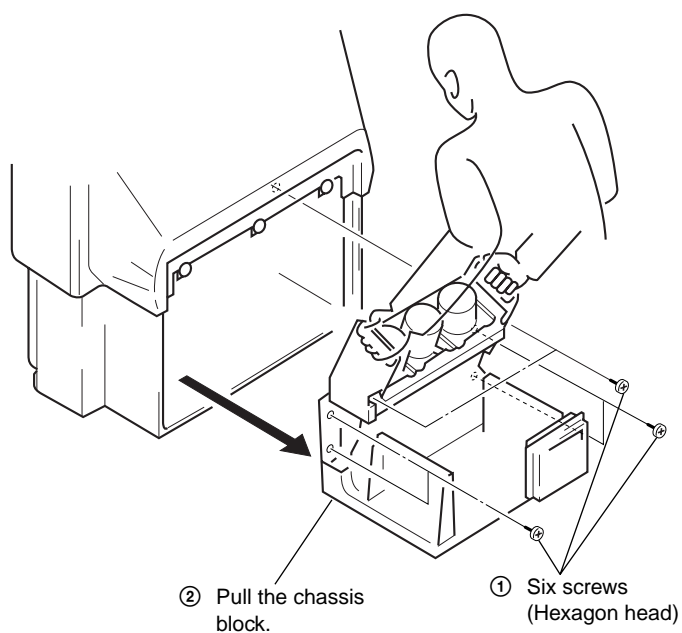
• KP-EF41



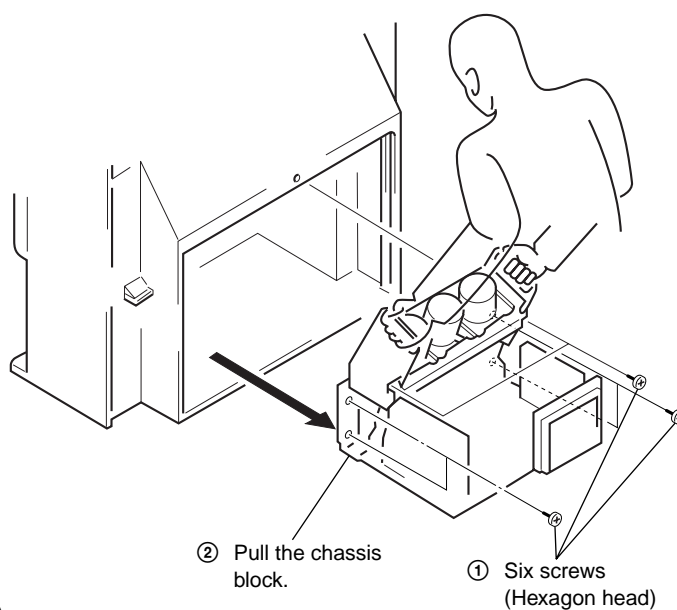
• KP-EF53



• KP-EF48



• KP-EF61



SECTION 3 SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the FOCUS Pack all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

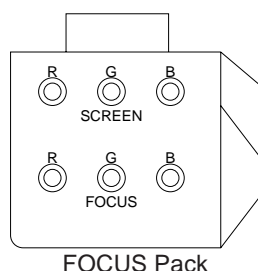


Fig. 3-1

3-2. FOCUS ADJUSTMENT

1. Loose the lens screw.
2. Set in service mode.
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Press the Commander button and select OSD (CHSW) to display the test signal (crosshatch) on the screen.
5. Rotate the green lens and align with the optimal focus point from the test signal.
6. Rotate the green VR on the FOCUS Pack and align to obtain the optimal focus point.
7. Perform the same alignment for red and blue lenses and electric focus.
8. Fix lens screw.

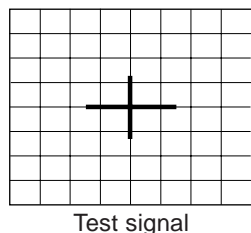


Fig. 3-2

3-3. SCREEN (G2) ADJUSTMENT

1. Connect JIG (A) to 200 V and GND.
2. Select VIDEO mode without signals.
3. Connect JIG to the TP701(KR), TP731(KG) or TP761(KB) of CR board, CG board and CB board.
4. Adjust R, G and B screen voltage to until retrace line disappears with screen VR on the focusblock.

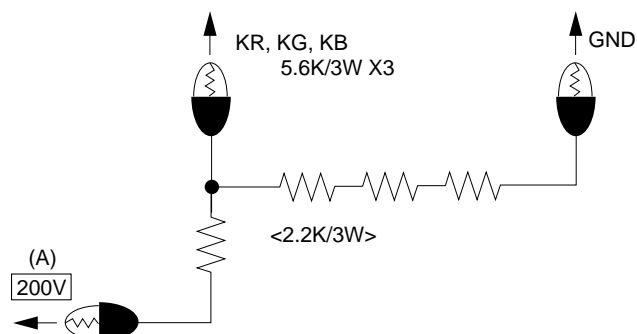


Fig. 3-3

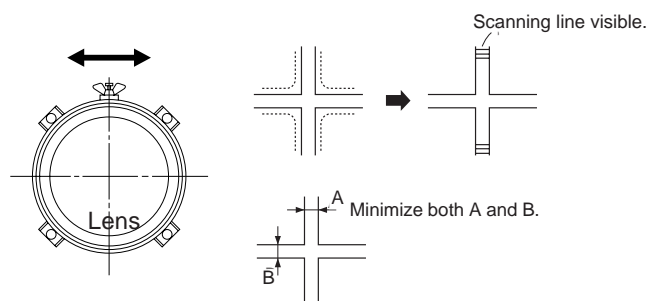


Fig. 3-4

Fig. 3-5

3-4. DEFLECTION YOKE TILT ADJUSTMENT

1. Set to receive the Monoscope signal.
2. Set in service mode.
3. Place the caps on the red and blue lens so that only the green color.
4. Loosen the deflection yoke setscrew and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.
5. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
6. The tilt of the deflection yoke for red and Blue is aligned the same as was done for green.

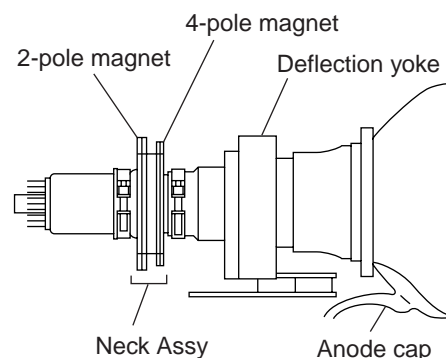


Fig. 3-6

3-5. 2-POLE MAGNET ADJUSTMENT

1. Set in service mode.
2. Set to receive the Dot signal.
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Turn the green VR on the focus block to the right and set to overfocus to enlarge the spot.
5. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the Just Focus spot.
6. Align the green focus VR and set for just (precise) focus.
7. Perform the same alignment for red and blue.

Use the center dot

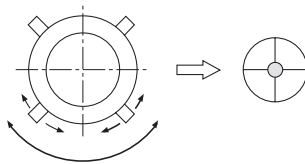


Fig. 3-7

3-6. 4-POLE MAGNET ADJUSTMENT

1. Set in service mode.
2. Set to receive the Dot signal.
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Turn the green VR on the focus block to the left and set to underfocus to enlarge the spot.
5. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle.
6. Perform the same alignment for red and blue.

Use the center dot

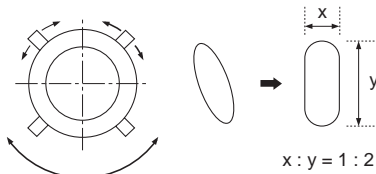
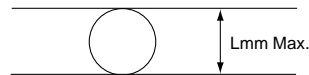


Fig. 3-8

3-7. DEFOCUS ADJUSTMENT (Blue)

1. Receive the Dot signal.
2. Place the caps on the red and green lens so that only the blue color is shown.
3. Rotate the blue focus volume on the focus pack and adjust to obtain best electrical focus.
4. Rotate Blue focus volume of focus pack clockwise, so that diameter of the Dot see Caution.

[Change Blue Defocus]



Inch	41"	48"	53"	61"
L	7	8	9	10

Fig. 3-10

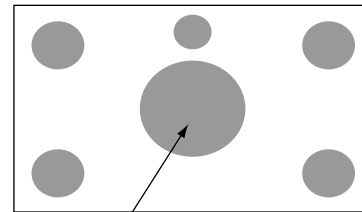
3-8. GREEN AND RED FOCUS ADJUSTMENT

3-8-1. Green and Red Lens Focus Adjustment

- 1) Input a monoscope signal.
- 2) Place a lens cover over Red and Blue lenses and project only Green.
- 3) Rotate the Green lens and adjust to obtain the best lens focus.
- 4) Fix lens screw.
- 5) Repeat above process for Red.

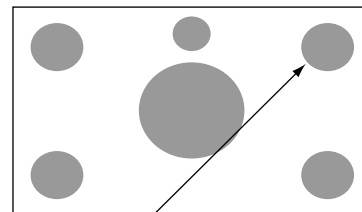
3-8-2. Green and Red Electrical Focus Adjustment

- 1) Input a monoscope signal.
- 2) Project only Green.
- 3) Rotate the green focus volume on the focus pack and adjust to obtain an optimal electrical focus in the top right corner, taking care of center focus is not NG. obtain a compromise between center and corner focus.
- 4) Repeat above process for Red.



Adjust Point

Fig. 3-11





Adjust Point


Fig. 3-12

SECTION 4

SAFETY RELATED ADJUSTMENT

When replacing the following components marked with  on the schematic diagram, always check hold-down voltage and if necessary re-adjust.

Part Replaced ()
R1

Part Replaced ()
E Board C515, C516, C554, D504, D507, L506, Q502, R1, R514, R516, R517, T502, T504 (FBT)
G Board IC6008

4-1. HV HOLD-DOWN ADJUSTMENT

1. Remove CN810. Connect HV meter to HV Block.
2. Connect External Power Supply to CN810 ② pin (+135V) and ① pin (GND).

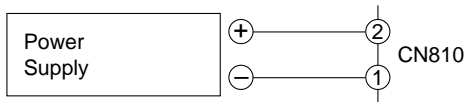


Fig. 4-1

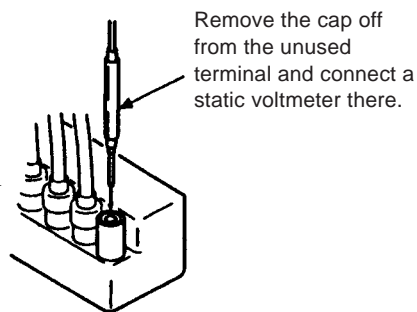


Fig. 4-2

E BOARD – CONDUCTOR SIDE –

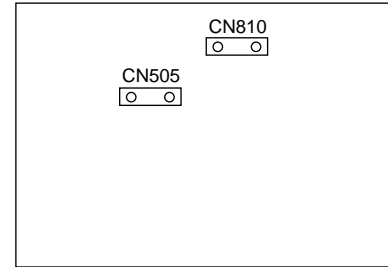


Fig. 4-3

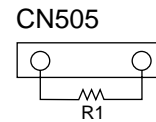


Fig. 4-4

3. Turn on the set.
4. Slowly up the supply voltage from 0V to 135V.
5. Receive dot picture and set PICTURE/BRIGHTNESS to minimum.
6. Slowly up the voltage until hold-down circuit works (picture disappear).
7. Read the HV meter of peak HV voltage.
Spec: $34.5 \pm 0.75KV$
8. If Hold-down voltage is less than 33.75KV then solder R1=820K.
9. If hold-down voltage is over than 35.25KV then take-off R514 and solder R1=9.1K.

SECTION 5
CIRCUIT ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-871 that comes with this unit.

Entering service mode

With the unit on standby

i+

5

△

□

The operation sequence puts the unit into service mode.

1, 4

3, 6

MUTING

0

Select the adjustment item.

Raise/lower the data value.

Writes.

Executes the writing.

7, 0

8, 0

5, 0

i+, 0

All the data becomes the values in memory.

All user control goes to the standard state.

Service data initialization (Be sure not to use usually.)

Write 50Hz adjustment data to 60Hz, or vice versa. (not to use 2, 0.)

The screen display is :

Adjustment item

Item number

DATA

Mode

00

VSH

1F

SERVICE

50

XXX

V2

1C

00 00 00

20

SOFTWARE VERSION

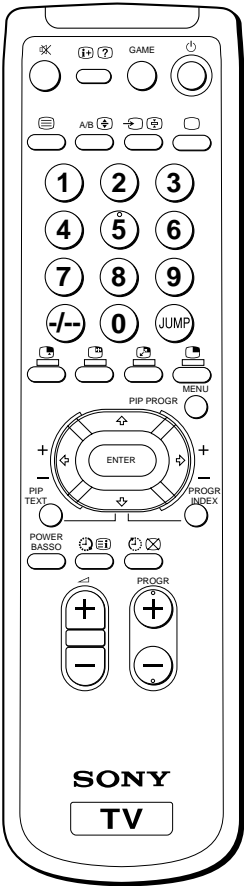
OEM CODE

H SYNC COUNTER

Depends on the signals

PAL, SECAM : 50

NTSC : 60



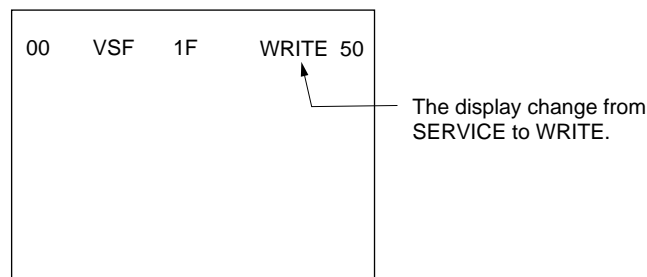
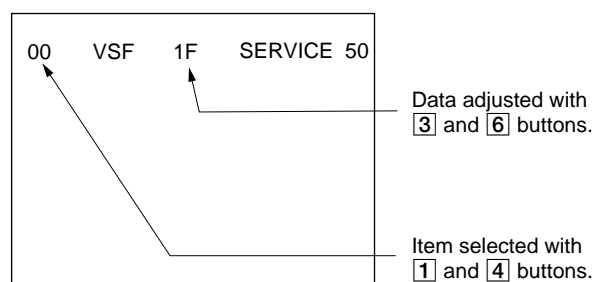
RM-871

5-2. ADJUSTMENT METHOD

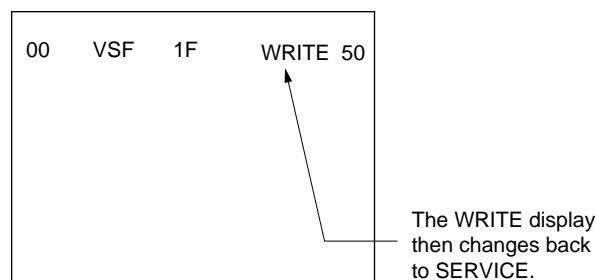
Item Number 00

This explanation uses V-Position as an example.

1. Select 00 VSH with the **[1]** and **[4]** buttons.
2. Raise/lower the data with the **[3]** and **[6]** buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Write with the **[MUTING]** button. (The display changes to WRITE.)
5. Execute the writing with the **[0]** button. (The WRITE display will be changed back to SERVICE.)



Written with **[MUTING]**



Write executed with **[0]**

Use the same method for Items Number 00-99. Use **[1]** and **[4]** to select the adjustment item, use **[3]** and **[6]** to adjust, write with **[MUTING]**, then execute the write with **[0]**.

- As for V-FREQ, by searching the bolded screen V range with adjusting data.

Note : 1. For adjustment Items that have different standard data between 50Hz or 60Hz and normal or wide, be sure to use the respective input signal while adjusting.

2. In **[WRITE]**, the data for all items are written into memory.

5-3. ADJUSTMENT AFTER IC1001 and IC1702 REPLACEMENT

1. Enter to Service Mode.
2. Change IC1001 (Except for Registration Adjustment). Change IC1702 (Only Registration Adjustment).
3. Call each item number, and check if the respective screen shows the normal picture.
In cases where items are not well adjusted, recitify the items with fine adjustment.
Write the data per each item number (**[MUTING]** + **[0]**)
4. Select item numbers "98" (OP0) and "99" (OP1) and respectively set the bit per model with command buttons **[3]** and **[6]**.

Adjustment Item Table

Item Display	Adj Item	Data Range	Std Values	Register Name	Device
00	VSH	00~3F	1B	V POSITION	CXA2050S
01	VSZ	00~3F	21	V SIZE	
02	HSH	00~0F	07	H POSITION	
03	HSZ	00~3F	12	H SIZE	
04	SCR	00~0F	06	S CORRECTION	
05	VLN	00~0F	08	V LINEARITY	
06	PAP	00~3F	0E	PIN COMP	
07	PPH	00~0F	05	PIN PHASE	
08	UCP	00~0F	05	UP CORNER PIN	
09	LCP	00~0F	05	LOW CORNER PIN	
0A	BOW	00~0F	05	AFC-BOW	
0B	ANG	00~0F	09	AFC-ANGLE	
OSD0	CHSW	0,1	0	Hatch Display (0: Disp Hatch, 1: No Disp)	CXP86213-002S
OSD1	OSDH	1-32	10	OSD H POS	
OSD2	OSDV	1-32	10	OSD V POS	
OSD3	VMRK	0,1	0	V SIZE Mark	
SFT0	SFTE	0,1	1	Shift Enable	
SFT1	SFTF	0	0	Shift Fast	
GH0	GSEL	0,1	0	OSD Select for GH, GV (0: G + R, 1: Green)	
GH1	CENT	0	0	CENTER	
GH2	SKEW	-127~+127	0	SKEW	
GH3	BOW	-127~+127	0	BOW	
GH4	4bow	-127~+127	0	4th BOW	
GH5	SIZE	-127~+127	0	SIZE	
GH6	LIN	-127~+127	0	LINEARITY	
GH7	MSIZ	-127~+127	0	MID SIZE	
GH8	MLIN	-127~+127	0	MID LINEARITY	
GH9	KEY	-127~+127	0	KEYSTONE	
GH10	SSKW	-127~+127	0	SUB SKEW	
GH11	MPIN	-127~+127	15	MID PINCUSION	
GH12	PIN	-127~+127	-12	PINCUSION	
GH13	SBOW	-127~+127	8	SUB BOW	
GH14	MBOW	-127~+127	0	MID BOW	
GH15	4PIN	-127~+127	0	4th PINCUSION	
GH16	4SBO	-127~+127	0	rth SUB BOW	
GV0	CENT	0	0	CENTER	
GV1	SKEW	-127~+127	0	SKEW	
GV2	BOW	-127~+127	0	BOW	
GV3	SIZE	-127~+127	0	SIZE	
GV4	LIN	-127~+127	0	LINEARITY	
GV5	MSIZ	-127~+127	0	MID SIZE	
GV6	MKEY	-127~+127	0	MID KEYSTONE	
GV7	KEY	-127~+127	0	KEYSTONE	
GV8	SSKW	-127~+127	0	SUB SKEW	
GV9	MPIN	-127~+127	0	MID PINCUSION	
GV10	PIN	-127~+127	20	PINCUSION	
GV11	SBOW	-127~+127	16	SUB BOW	
GV12	WAVE	-127~+127	0	WAVWE	
GV13	4PIN	-127~+127	25	4th PINCUSION	
RH0	CENT	-95~+96	0	CENTER	
RH1	SKEW	-95~+96	0	SKEW	
RH2	BOW	-127~+127	0	BOW	
RH3	4BOW	-127~+127	0	4th BOW	
RH4	SIZE	-127~+127	25	SIZE	
RH5	LIN	-127~+127	10	LINEARITY	
RH6	MSIZ	-127~+127	30	MID SIZE	
RH7	MLIN	-127~+127	-30	MID LINEARITY	

Item Display	Adj Item	Data Range	Std Values	Register Name	Device
RH8	KEY	-127~+127	0	KEYSTONE	
RH9	SSKW	-127~+127	0	SUB SKEW	
RH10	MPIN	-127~+127	0	MID PINCUSION	
RH11	PIN	-127~+127	-10	PINCUSION	
RH12	SBOW	-127~+127	40	SUB BOW	
RH13	MBOW	-127~+127	12	MID BOW	
RH14	4PIN	-127~+127	0	4th PINCUSION	
RH15	4SBO	-127~+127	0	4th SUB BOW	
RV0	CENT	-95~+96	-10	CENTER	
RV1	SKEW	-95~+96	0	SKEW	
RV2	BOW	-127~+127	4	BOW	
RV3	SIZE	-127~+127	0	SIZE	
RV4	LIN	-127~+127	0	LINEARITY	
RV5	MSIZ	-127~+127	0	MID SIZE	
RV6	MKEY	-127~+127	10	MID KEYSTONE	
RV7	KEY KEYSTONE	-10	-10	-127±127	
RV8	SSKW	-127~+127	10	SUB SKEW	
RV9	MPIN	-127~+127	0	MID PINCUSION	
RV10	PIN PINCUSION	10	10	-127±127	
RV11	SBOW	-127~+127	16	SUB BOW	
RV12	WAE	-127~+127	30	WAVE	
RV13	4PIN	-127~+127	10	4th PINCUSION	
RV14	MWAVE	-31~+31	0	MID WAVE	
BH0	BSEL	0,1	0	OSD Select for BH, BV (0: B + G, 1: B + R)	
BH1	CENT	-95~+96	0	CENTER	
BH2	SKEW	-95~+96	0	SKEW	
BH3	BOW	-127~+127	0	BOW	
BH4	4BOW	-127~+127	0	4th BOW	
BH5	SIZE	-127~+127	-25	SIZE	
BH6	LIN	-127~+127	-10	LINEARITY	
BH7	MSIZ	-127~+127	30	MID SIZE	
BH8	MLIN	-127~+127	30	MID LINEARITY	
BH9	KEY	-127~+127	0	KEY KEYSTONE	
BH10	SSKW	-127~+127	0	SUB SKEW	
BH11	MPIN	-127~+127	0	MID PINCUSION	
BH12	PIN	-127~+127	-10	PINCUSION	
BH13	SBOW	-127~+127	-40	SUB BOW	
BH14	MBOW	-127~+127	-16	MID BOW	
BH15	4PIN	-127~+127	0	4PIN 4th PINCUSION	
BH16	4SBO	-127~+127	0	4th SUB BOW	
BV0	CENT	-95~+96	-10	CENTER	
BV1	SKEW	-95~+96	0	SKEW	
BV2	BOW	-127~+127	0	BOW	
BV3	SIZE	-127~+127	0	SIZE	
BV4	LIN	-127~+127	0	LINEARITY	
BV5	MSIZ	-127~+127	0	MID SIZE	
BV6	MKEY	-127~+127	-10	MID KEYSTONE	
BV7	KEY	-127~+127	10	KEYSTONE	
BV8	SSKW	-127~+127	-10	SUB SKEW	
BV9	MPIN	-127~+127	0	MID PINCUSION	
BV10	PIN	-127~+127	10	PINCUSION	
BV11	SBOW	-127~+127	32	SUB BOW	
BV12	WAVE	-127~+127	-30	WAVE	
BV13	4PIN	-127~+127	10	4th PINCUSION	
BV14	MWAVE	-31~+31	0	MID WAVE	
ACV0	ART0	1-8	6	DATA SAMPLE LENGTH	
ACV1	ATIM	0-255	1S	SAMPLE START TIME (UP)	

Item Display	Adj Item	Data Range	Std Values	Register Name	Device
ACV2	ATIM	0-255	132	SAMPLE START TIME (LSR)	
ACV3	ATIB	0-255	240	SAMPLE START TIME (BOT)	
ACV4	AH51	0-255	1S	OSD H POS 50 (L & R)	
ACV5	AH52	0-255	130	OSD H POS 50 (UP & BOTTOM)	
ACV6	AV5T	0-255	1	OSD V POS 50 (UP)	
ACV7	AV5M	0-255	60	OSD V POS 50 (L & R)	
ACV8	AV5B	0-255	130	OSD V POS 60 (BOTTOM)	
ACV9	AH61	0-255	18	OSD H POS 60 (L & R)	
ACV10	AH62	0-255	130	OSD H POS 60 (BOTTOM)	
ACV11	AV6T	0-255	1	OSD V POS 50 (UP)	
ACV12	AV6M	0-255	46	OSD V POS 50 (L & R)	
ACV13	AV6B	0-255	100	OSD V POS 50 (BOTTOM)	
ACV14	RHCO	-127~+127	0	RH CENT ADJ OFFSET	
ACV15	BHCO	-127~+127	0	BH CENT ADJ OFFSET	
ACV16	RCO	-127~+127	0	RV CENT ADJ OFFSET	
ACV17	BVCO	-127~+127	0	BV CENT ADJ OFFSET	
ACV18	RHSO	-127~+127	0	RH SKEW ADJ OFFSET	
ACV19	BHSO	-127~+127	0	BH SKEW ADJ OFFSET	
ACV20	RVSO	-127~+127	0	RV SKEW ADJ OFFSET	
ACV21	BVSO	-127~+127	0	BV SKEW ADJ OFFSET	
ACV22	AERR	0-255	0	AUTO CONV. ERROR CODE	
MSC0	ACTL	0-255	0	COUNTER (LOW BYTE)	
MSC1	ACTH	0-255	0	COUNTER (HIGH BYTE)	
0C	VAP	00~3F	2F	V ASPECT	CXA2050S
0D	VSC	00~3F	1F	V SCROLL	
0E	ULN	00~0F	00	UP V LINEARITY	
0F	LLN	00~0F	00	LOW V LINEARITY	
10	EHH	00~03	00	EHT-H	
11	EHV	00~03	00	EHT-V	
12	HBS	00~01	01	H BLK WID.ON/OFF	
13	LBK	00~0F	0F	L BLK WIDTH	
14	RBK	00~0F	0F	R BLK WIDTH	
15	JSW	00~01	00	JUMP ON/OFF SW	
16	VBW	00~03	02	V BLK WID.CON.	
17	AFC	00~03	01	AFC-MODE	
18	FHH	00~01	00	FH-HI	
19	VFQ	00~03	00	V-FREQ	
1A	VOF	00~01	00	V OFF	
1B	VMD	00~01	00	CD-MODE2	
1C	CMD	00~01	00	CD-MODE	
1D	TTL	00~03	00	INTERLACE	
1E	ZSW	00~01	00	ZOOM SW	
1F	POV	00~03	03	PRE-OVER	
20	CT1	00~01	01	C-TRAP(NTSC)	
21	CT2	00~01	01	C-TRAP(PAL)	
22	CFO	00~0F	07	C-TRAP fo ADJ	
23	SFO	00~01	00	SHARPNESS fo ADJ	
24	TOT	00~01	01	TOT FILTER SW	
25	CSW	00~03	00	COLOR SW	
26	XTL	00~03	00	XTAL	
27	CV1	00~01	01	CV/YC SEL(NTSC)	
28	CV2	00~01	01	CV/YC SEL(PAL)	
29	VM	00~01	01	VM ON/OFF	
2A	YVM	00~01	00	YS1/VM SW(0:YS1)	
2B	DPC	00~01	01	D-PIC ON/OFF	

Item Display	Adj Item	Data Range	Std Values	Register Name	Device
2C	DCO	00~01	01	DYNAMIC COLOR	
2D	GMM	00~03	01	GAMMA	
2E	DTR	00~01	01	DC-TRANSIENT	
2F	DL1	00~07	03	DELAY CTRL(PAL)	
			03		
30	DL2	00~07	03	DELAY CTRL(NTSC)	
			03		
31	DL3	00~07	03	DELAY CTRL(SECAM)	
			03		
32	DL4	00~07	07	DELAY AT DVD(50Hz)	
33	DL5	00~07	07	DELAY AT DVD(60Hz)	
34	SCN	00~0F	09	SUB-CONTRAST	
35	SC1	00~0F	0B	SUB-COLOR(OTHER)	
36	SC2	00~0F	0B	SUB-COLOR(NTSC)	
37	SH1	00~0F	04	SUB-HUE(TV)	
38	SH2	00~0F	07	SUB-HUE(VIDEO)	
39	SBR	00~3F	24	SUB-BRIGHT	
3A	SSH	00~07	04	SUB-SHARPNESS	
			02		
3B	GDR	00~3F	1D	G-DRIVE	
3C	BDR	00~3F	20	B-DRIVE	
3D	GCF	00~0F	07	G-CUTOFF	
3E	BCF	00~0F	08	B-CUTOFF	
3F	RPO	00~03	01	0F[0..1]	
			02		
40	PON	00~01	01	PIC-ON	
41	RON	00~01	01	R ON	
42	GON	00~01	01	G ON	
43	BON	00~01	01	B ON	
44	AKF	00~01	00	AKB ON/OFF SW	
45	ESY	00~01	00	EXT SYNC SEL	
			00		
46	AGG	00~01	00	AGING MODE ON/OFF	
47	ABL	00~01	00	ABL PIC/PICandBRT SW	
				(1:PIC ONLY)	
48	LIM	00~01	00	RGB LIMIT ON/OFF	
				(1:ON)	
49	PB	00~01	01	PICTURE BOOSTER	No use
4A	BOF	00~01	01	BLACK OFFSET	
4B	UVG	00~3F	1F	USER VAR.GAMMA	
4C	ADG	00~3F	1F	ADAPTIVE GAMMA	
4D	NLA	00~3F	05	NON-LINEAR AMP	
4E	WDS	00~02	00	WINDOW SELECT	
4F	LST	00~0F	07	WINDOW LINE START	
50	LSP	00~0F	07	WINDOW LINE STOP	
51	FST	00~0F	07	WINDOW FIELD START	
52	FSP	00~0F	07	WINDOW FIELD STOP	
53	VA	00~01	01	V APERTURE ON/OFF	No use
54	VAW	00~03	02	V APERTURE WHITE	
55	VAB	00~03	02	V APERTURE BLACK	
56	VAC	00~0F	02	V APERTURE CORE	
57	SHP	00~3F	25	SHARPNESS	No use
			20		
58	VMH	00~3F	29	VM LIMITTER(HIGH)	
59	VML	00~3F	1C	VM LIMITTER(LOW)	

Item Display	Adj Item	Data Range	Std Values	Register Name	Device
5A	COR	00~3F	1C	CORING	
5B	DOF	00~3F	1C	DSC OFFSET	
5C	DGA	00~3F	1F	DSC GAIN	
5D	DLT	00~01	01	DELAY TIME	
5E	SDL	00~0F	00	SEL PIN DELAY	SDA9189X
5F	POH	00~FF	1B	H POSITION(MSB 8bit)	
60	POV	00~FF	2F	V POSITION	
61	HDL	00~1F	0B	HSI DELAY	
62	AMS	00~01	00	DECIMATION FILTER	
63	VDL	00~1F	0B	VSI DELAY	
64	VSP	00~1F	0D	VSP DELAY	
65	CON	00~0F	06	CONTRAST	
66	FRY	00~0F	09	FRAME Y	
67	FRV	00~0F	00	FRAME V	
68	FRU	00~0F	00	FRAME U	
69	INF	00~01	01	INNER FRAME	
6A	FWV	00~03	02	FRAME WIDTH V	
6B	FWH	00~07	07	FRAME WIDTH H	
6C	PLL	00~03	02	PLL LOOP FILTER	
6D	PDV	00~0F	00	PEDESTAL V	
6E	PDU	00~0F	00	PEDESTAL U	
6F	DAT	00~01	00	DAC STREAM CONTROL	
70	DAN	00~01	00	DAC CONTROL	
71	FAW	00~FF	08	NICAM FAW THRESH	MSP3410
72	CTM	00~FF	08	NICAM ERROR BIT(MONO)	
73	CTN	00~FF	50	NICAM ERROR BIT(NICAM)	
74	WCD	00~FF	0A	W.G.DATA CHANGE	
75	WST	00~FF	15	W.G.STEREO THRESHOLD	
76	WTM	00~FF	50	W.G.TIMER	
77	WBT	00~01	EA	W.G.BILINGUAL THRESHOLD	
78	AGC	00~01	01	AGC AUTO/CONST	
79	CDB	00~3F	28	AGC GAIN CONST	
7A	FGP	00~7F	24	FM(BG,I,DK)PRESCALE	
7B	EMP	00~7F	40	FM(M)PRESCALE	
7C	WGP	00~7F	3C	W.G.PRESCALE	
7D	NIP	00~7F	7F	NICAM PRESCALE	
7E	CRM	00~01	00	CARRIER MUTE	
7F	CML	00~03	00	CARRIER MUTE LEVEL	
80	ACO	00~01	01	AUDIO CLOCK OUT	
81	WAC	00~0F	01	W.G.AGREEMENT COUNT	
82	DLY	00~FF	30	STEREO SEARCH DELAY	
83	DLG	00~FF	10	W.G.SEARCH DELAY	
84	TXP	00~0F	0E	TEXT PICTURE CONT	SAA5261
85	MXP	00~0F	0F	TEXT MIX MODE PIC	
86	TXH	00~03	02	TEXT DISPLAY POSITION(H)	
87	BB1	00~3F	1D	BBE CONTROL HIGH	CXA1315
88	BB2	00~3F	1D	BBE CONTROL MIDDLE	
89	BB3	00~3F	28	BBE CONTROL LOW	
8A	ATW	00~03	01	AUTO WIDE IDENTSPED	No use
8B	BKP	00~FF	00	BLK OFF PICTURE	No use
8C	OSH	00~3F	0D	OSD POSITION H	
8D	ODL	00~FF	10	POWER ON DELAY	
8E	BLU	00~01	01	BLUE BACK ON/OFF	
8F	ROC	00~0F	0F	N/S CENTER VOL	

Note: Items are fixed data.

Item Display	Adj Item	Data Range	Std Values	Register Name	Device
90	ROS	00~07	07	USER SET UP	
91	DKS	00~01	01	D/K STEREO SEARCH	
92	MUT	00~01	01	NO SYNC MUTE	
93	DID	00~01	00	DISABLE DEGAUSS	
94	DWZ	00~01	00	DISABLE WIDEZOOM	
95	BCS	00~01	00	BASS CENTER SHIFT	
96	RVS	00~01	00	BASS VOLUME SHIFT	
97	WBS	00~03	00	WOOFER OFF BASS SHIFT	
98	OP0	00~FF	C1	OPTION 0	
99	OP1	00~FF	3E	OPTION 1	

Note: Items are fixed data.

ITEM INFORMATION

No.98 OP 0

ITEM	MSP RST	H.D. M	—	—	—	—	—	Text Mode
Normal	0	0	0	0	0	0	0	1

bit 0 0: Automatic mode

1: Fastext mode

bit 6 0: High Deviation mode Disable

1: High Deviation mode Enable

bit 7 0: Off

1: On

No.99 OP 1

ITEM	WIDE	WOOFER	TILT	VM	COMB ELECT	COMB	SECAM	B/G ONLY
Normal	0	0	1	1	1	1	1	0

E: Tilt, Digital comb, SECAM decoder

V: Wide, Tilt, Digital comb, SECAM decoder

J: Tilt, Grass comb, VM, SECAM decoder

bit3 0: Grass comb

1: Digital comb

bit2 0: comb OFF

1: comb ON

5-4. REGISTRATION (CONVERGENCE) ADJUSTMENT METHOD

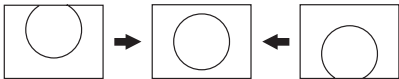
PAL REGISTRATION ADJUSTMENT

- 1) Receive the PAL SPCB signal.
- 2) Select Service mode and enter adjustment items for Green signal.

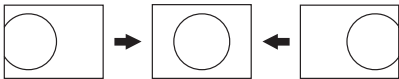
CENTER ADJUSTMENT

- 1) Adjust GH and GV CENT.

GV CENT



GH CENT

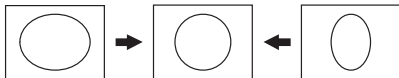


SIZE ADJUSTMENT

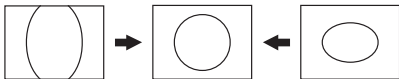
- 1) Adjust GH SIZE data "0".
- 2) Adjust VSP H-SIZE.
- 3) Make GV SIZE data "00".
- 4) Adjust VSP V-SIZE.
- 5) Adjust VSP SSCOR.

SPEC : H-SIZE 16.4 +/- 0.15 Sq.
V-SIZE 12.3 +/- 0.15Sq.

VSP HSIZE



VSP VSIZE

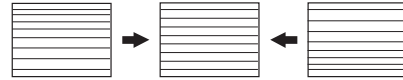


MAIN DEFLECTION ADJUSTMENT

- 1) Adjust VSP V-Lin.

Correct linearity of the horizontal top and bottom lines.

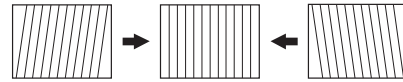
VSP VLINE



- 2) Adjust VSP H-SKEW

Correct the vertical center line to be in parallel with the screen edges and other colors.

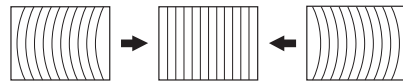
VSP H-SKEW



- 3) Adjust VSP H-BOW.

Correct linearity of the vertical center line.

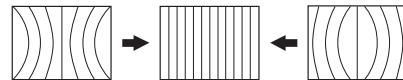
VSP H-BOW



- 4) Adjust VSP H-PIN.

Correct the vertical left and right lines and eliminate pin-cushion-shaped distortion.

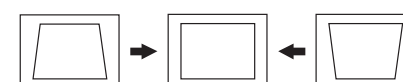
VSP H-PIN



- 5) Adjust VSP H-Key.

Correct the vertical left and right lines to be in parallel with each other.

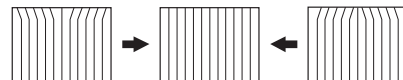
VSP H-KEY



- 6) Adjust VSP UC. PIN

Correct the screen top section line bow.

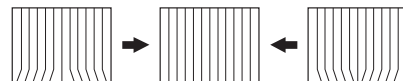
VSP UC. PIN



- 7) Adjust VSP LC. PIN

Correct the screen bottom section line bow.

VSP LC. PIN



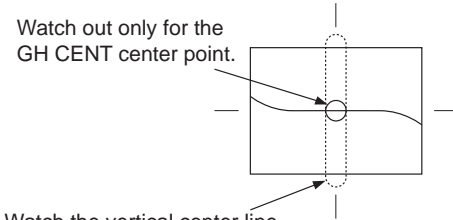
SUB DEFLECTION ADJUSTMENT ITEM

Adjustment O : Yes – : No

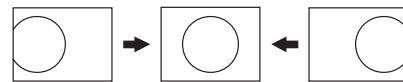
Display	Adjustment item	Adjustment type					
		GH	GV	RH	RV	BH	BV
BSEL	COL SELECT	–	–	–	–	O	–
CENT	CENT	O	O	O	O	O	O
SKEW	SKEW	O	O	O	O	O	O
BOW	BOW	O	O	O	O	O	O
4BOW	4TH BOW	O	–	O	–	O	–
SIZE	SIZE	O	O	O	O	O	O
LIN	LIN	O	O	O	O	O	O
MSIZ	MID SIZE	O	O	O	O	O	O
MLIN	MID LIN	O	O	O	–	O	–
MKEY	MID KEY	–	O	–	O	–	O
KEY	KEY	O	O	O	O	O	O
SSKW	SUB SKEW	O	O	O	O	O	O
MPIN	MID PIN	O	O	O	O	O	O
PIN	PIN	O	O	O	O	O	O
SBOW	SUB BOW	O	O	O	O	O	O
WAVE	WAVE	–	O	–	O	–	O
MBOW	MID BOW	O	–	O	–	O	–
4PIN	4TH PIN	O	O	O	O	O	O
4SBOW	4TH SUB BOW	O	–	O	–	O	–

VERTICAL LINE ADJUSTMENT

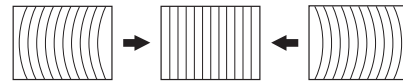
1. Carefully watching out for the GH CENT screen centre section, adjust GH CENT, GH BOW, GH SKEW.
2. GH 4th Bow adjustment. Correct the corner distortion which could not be adjusted with GH BOW.



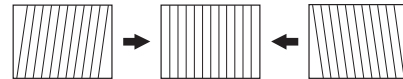
GH CENT



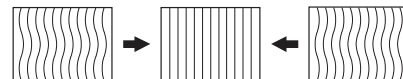
GH BOW



GH SKEW

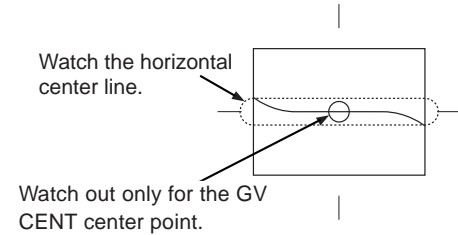


GH 4BOW

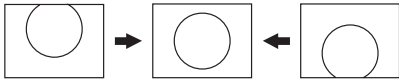


HORIZONTAL LINE ADJUSTMENT

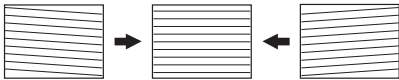
1. Finely adjust the centre position of the vertical line at the centre of the screen with GV CENT.
2. Using GV SKEW and GV BOW, correct the tilt and bow of the horizontal line at the centre of the screen.



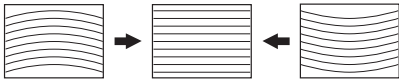
GV CENT



GV SKEW

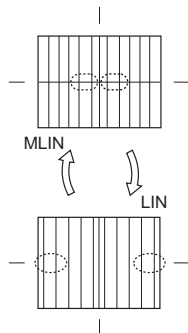


GV BOW



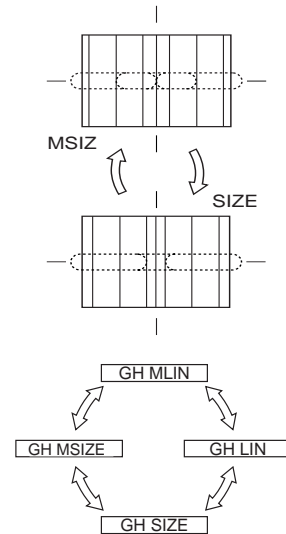
SIZE AND LINEARITY ADJUSTMENT

1. Balance the sizes at both sides of the centre section of the screen with GH MLIN.
2. Balance the sizes on both end sections of the screen with GH LIN.
3. While tracking, adjust with GH MLIN and GH LIN so that the sizes of the horizontal line at the centre of the screen are symmetrical left and right.



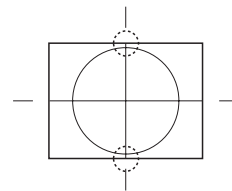
HORIZONTAL SIZE ADJUSTMENT

1. Adjust with GH MSIZE, so that the sizes of both edges and centre are equal.
2. Adjust with GH SIZE, so that the horizontal sizes of both edges and centre are equal.
3. While tracking adjust GH MSIZE and GH SIZE so that the space intervals for the horizontal section of the screen are equal.
4. Adjust again if M LIN is changed after GH MSIZE and GH SIZE are complete.



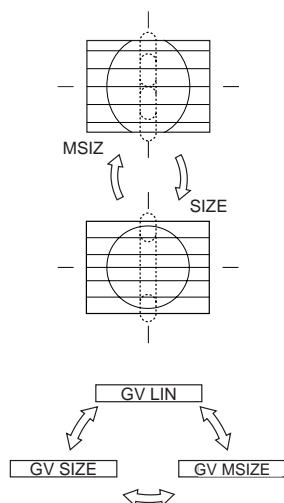
GREEN VERTICAL LINEARITY ADJUSTMENT

1. Adjust GV LIN so that the vertical lines at the top and bottom of the screen are symmetrical.



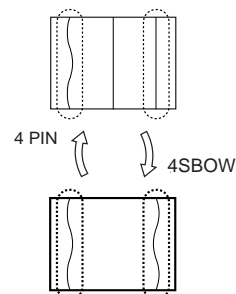
GREEN VERTICAL SIZE ADJUSTMENT

1. Adjust GV MSIZE so that the sizes at the top and bottom and centre are equal.
2. Set the vertical size to correct specification.
3. While tracking adjust GV MSIZE and GV SIZE so that the space intervals for the vertical line of the screen are equal, also the vertical size should be within space.
4. Adjust again if GV LIN has been altered after completing the above adjustments.



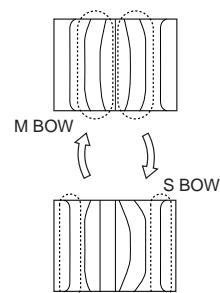
GREEN HORIZONTAL QUATERNARY ADJUSTMENT

1. Adjust GH 4PIN, to correct the 4th order distortion.
2. Adjust GH 4SBO to balance and correct the 4th order distortion at both edges of the screen.
3. While tracking adjust GH 4PIN and GH 4SBOW.



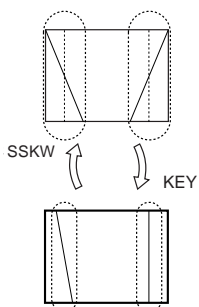
GREEN HORIZONTAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT

1. Adjust GH MBOW, so that the pin asymmetry at both sides of the centre section are symmetrical left and right.
2. Adjust GH SBOW so that the bow at both edges of the screen is symmetrical left and right.
3. While tracking adjust GH MBOW and GH SBOW so that the bow of vertical lines over the entire screen is symmetrical.



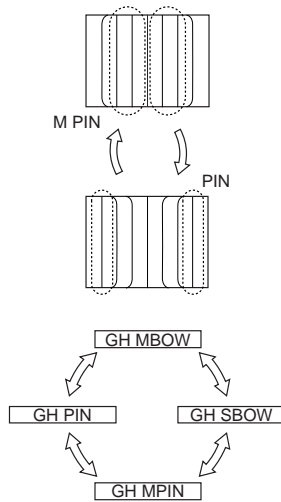
GREEN HORIZONTAL TRAPEZOIDAL DISTORTION ADJUSTMENT

1. Adjust GH SSKW so that the tilt of the vertical lines at both edges of the screen are symmetrical left and right.
2. Adjust GH KEY so that there is no tilt in the vertical lines at both edges of the screen.
3. While tracking adjust GH KEY and GH SSKW.



GREEN HORIZONTAL SYMMETRICAL PIN DISTORTION ADJUSTMENT

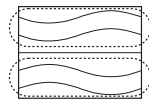
1. Adjust GH MPIN to correct pin distorton at both edges of the centre section.
2. Use GH PIN to correct pin distortion at both edges of the screen.
3. While tracking adjust GH MPIN and GH PIN so that the PIN of vertical lines on the entire screen have no bowing.
4. If there is asymmetrical distortion after adjustments, re-adjust GH MBOW and GH SBOW while tracking.



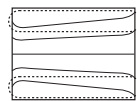
GREEN VERTICAL WAVE (3RD-ORDER) DISTORTION ADJUSTMENT

1. Check the screen at the top & bottom, and look for any 2nd or 3rd order waveform distortion of horizontal lines. Correct with GV WAVE.
2. While tracking adjust GV WAVE and GV KEY, if there are any KEY distortion.

GV WAVE



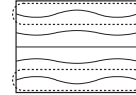
GV KEY



GREEN VERTICAL 4TH ORDER DISTORTION ADJUSTMENT

1. By using GV 4 PIN, 4th-Order distortion of the horizontal lines at the top & bottom can be corrected. Since there is no 4SBO for vertical correction, there will be a slight imbalance, but adjust the registration to eliminate any distortion.

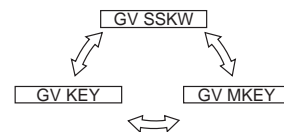
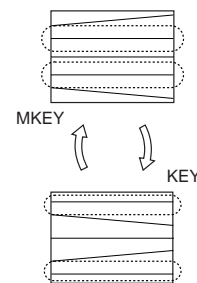
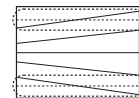
GV 4PIN



GREEN VERTICAL TRAPEZOIDAL DISTORTION ADJUSTMENT

1. Adjust GV SSKW so that the tilt of the horizontal lines at the top and bottom of the screen are symmetrical.
2. Adjust GV MKEY so that there is no tilt for the middle section.
3. Adjust GV KEY so that there is no tilt at the top and bottom of the screen.
4. While tracking adjust GV MKEY and GV KEY, so that there is no tilt over the entire screen.
5. If the tilt is unbalanced after GV MKEY and GV KEY have been adjusted, readjust GV SSKW.

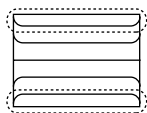
GV SSKW



GREEN VERTICAL ASYMMETRICAL PIN DISTORTION (2ND-ORDER DISTORTION) ADJUSTMENT

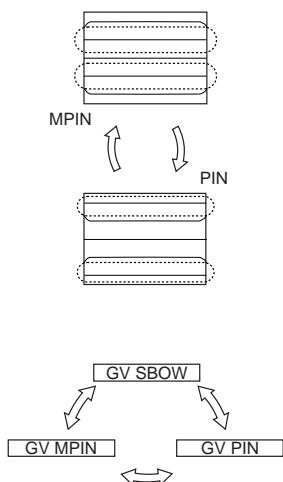
1. Correct the asymmetrical pin distortion at the top and bottom of the screen with GV SBOW.

GV SBOW



GREEN VERTICAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT

1. Using GV MPIN adjust the pin distortion at both edges of the screen and at the centre.
2. Using GV PIN, adjust, so that the horizontal lines at the top & bottom of the screen are straight lines.
3. Adjust GV MPIN & GV PIN so that there is no curve in the horizontal lines on the entire screen.
4. After adjusting the items above, using tracking with GV SBOW. GV MPIN, and GV PIN to correct the entire screen.



GREEN AND RED REGISTRATION ADJUSTMENT

1. Receive a PAL cross-hatch signal.
2. Adjust so that the red lines lay on the green lines.
Adjust, using the same procedure as the GREEN SUB adjustment outline above.

Note : Main registration correction should not be while adjusting Red adjustment.

BEWARE : Not to change Green Sub Items It's easily done by mistake.

GREEN AND BLUE ADJUSTMENT

1. Adjust so that the blue and green lines are on top of each other.

Note : Main registration correction should not be while adjusting Blue adjustment.

BEWARE : Not to change Green & Red Sub Items. It's easily done by mistake.

REGISTRATION DATA WRITE

After Finish all PAL registration adjustments, write PAL registration data by pressing from the appropriate buttons.

DATA WRITE

Press MUTE +0

DATA COPY FROM PAL TO NTSC

Copy PAL data to NTSC data by pressing " DISPLAY " and " 0 "

- * Press " **i+** (DISPLAY) " + " 0 " to copy data from PAL to NTSC.

If you press " **i+** (DISPLAY) ", then it appears " WRT5060 " to display.

- * Make sure input signal is PAL. If input signal is NTSC and do this process, NTSC data are copied to PAL data!

5-5. AUTO CONVERGENCE ADJUSTMENT

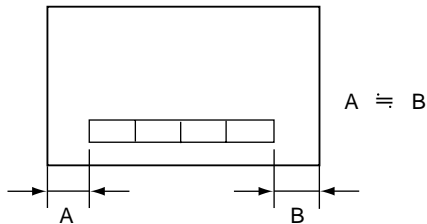
1. Enter service mode.
2. Confirm registration is well adjusted (especially center).
3. Push "Quick Focus" (Auto Convergence) button in the control panel.
4. If, Auto Convergence is successfully finished, then OK.
5. If not, please check the connection of the photo sensor and it's harness.

5-6. WHITE BALANCE ADJUSTMENT

1. Receive the monoscope signal and adjust the picture quality with the menu.
2. Adjust service mode S-BRIGHT so that the signal 10 IRE section barely glows.
3. Receive the all-white pattern signal.
4. Adjust the white balance with service mode G-CUTOFF and B-CUTOFF.
5. Adjust service mode S-BRIGHT so that the signal 100 IRE section barely glows.
6. Adjust the white balance with service mode G-DRIVE and B-DRIVE.
7. Repeatedly adjust the white balance for the minimum and maximum picture settings.

5-7. TEXT POSITION ADJUSTMENT

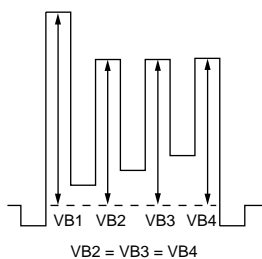
1. Receive RF signal with text.
2. Select item 86 (TXH) Text H position adjustment by commander.
3. Adjust H Position of Text.



5-8. PICTURE QUALITY ADJUSTMENTS

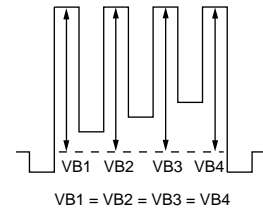
SUB COLOR ADJUSTMENT (SC1, SC2)

1. Input a PAL color-bar.
2. Set to the following condition:
PICTURE 90%, BRIGHTNESS 50%, COLOR 50%
3. Connect an oscilloscope to the pin ④ (B OUT) of CN405, AG board.
4. Set to Service Mode and select 35 SC1 with [1] and [4] of the commander then adjust to VB2=VB3=VB4 with [3] and [6].
5. Press [MUTING] → [0] of the commander to write the data.
6. Adjust 36 SC2 as step 2 to 5 when receiving NTSC color-bar.



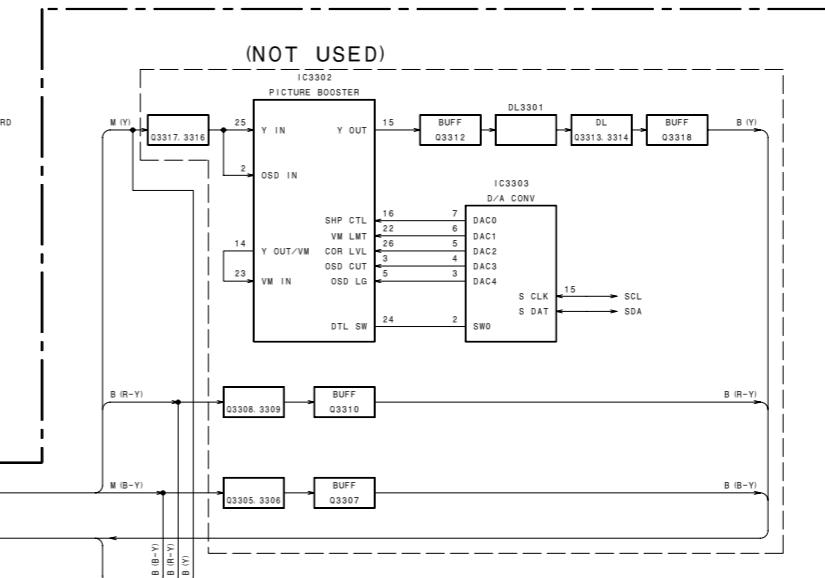
SUB HUE ADJUSTMENT (SH1, SH2)

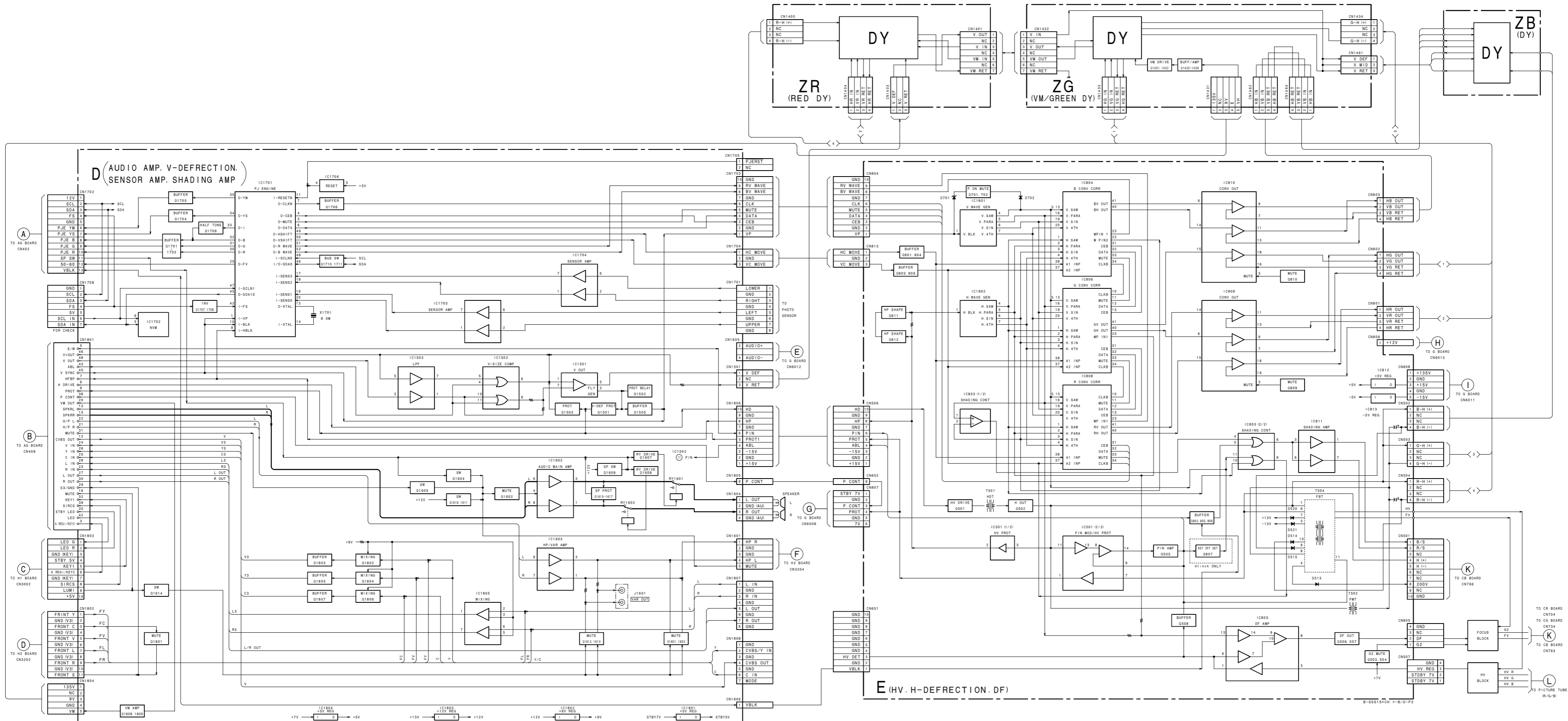
1. Input a PAL color-bar.
2. Set the following condition:
PICTURE 90%, BRIGHTNESS 50%, COLOR 50%.
3. Connect an oscilloscope to the pin ④ (B OUT) of CN405, AG board.
4. Select 37 SH1 with [1] and [4] of the commander by setting to Service Mode and adjust to VB1=VB2=VB3=VB4 with [3] and [6].
5. Select Video1.

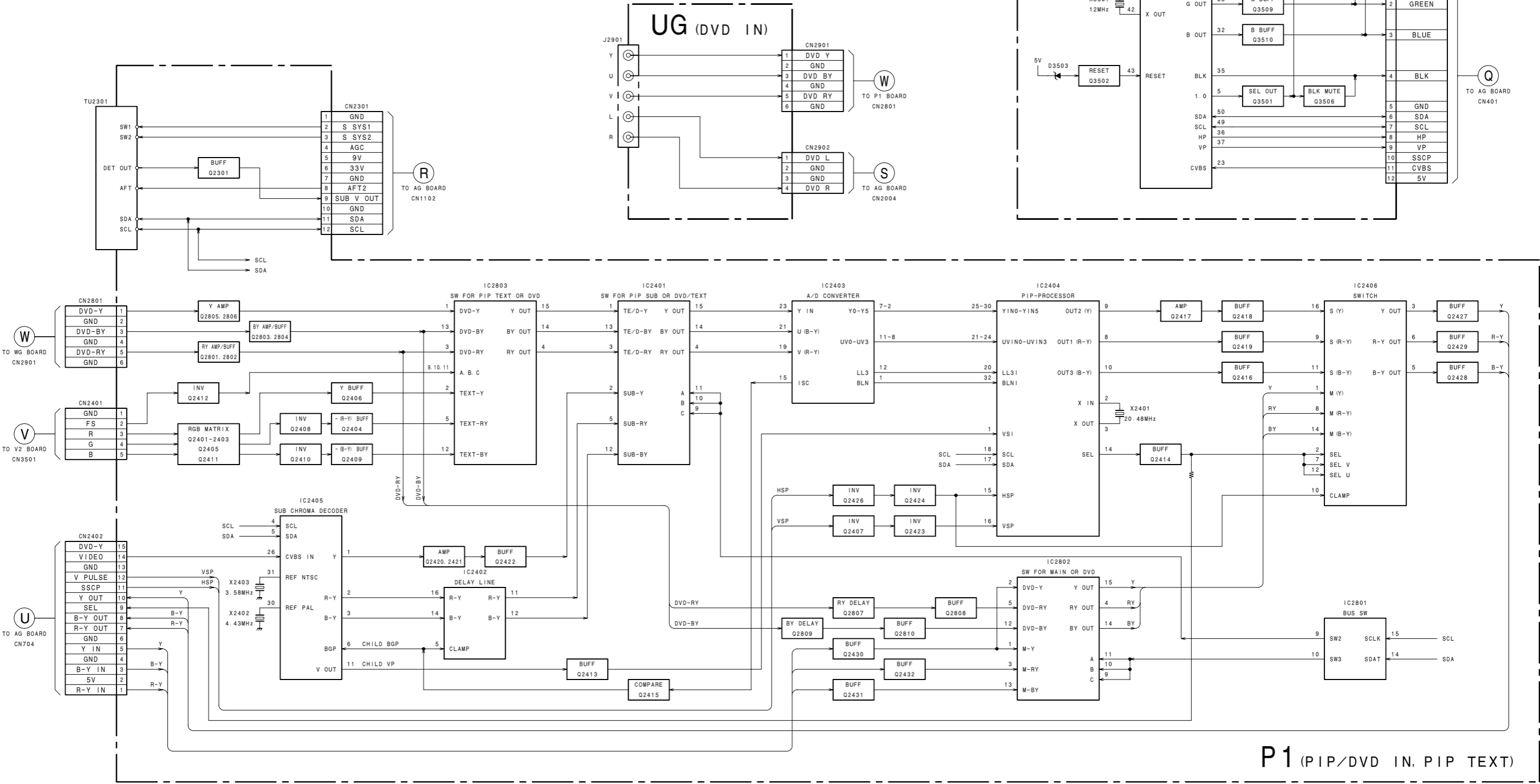


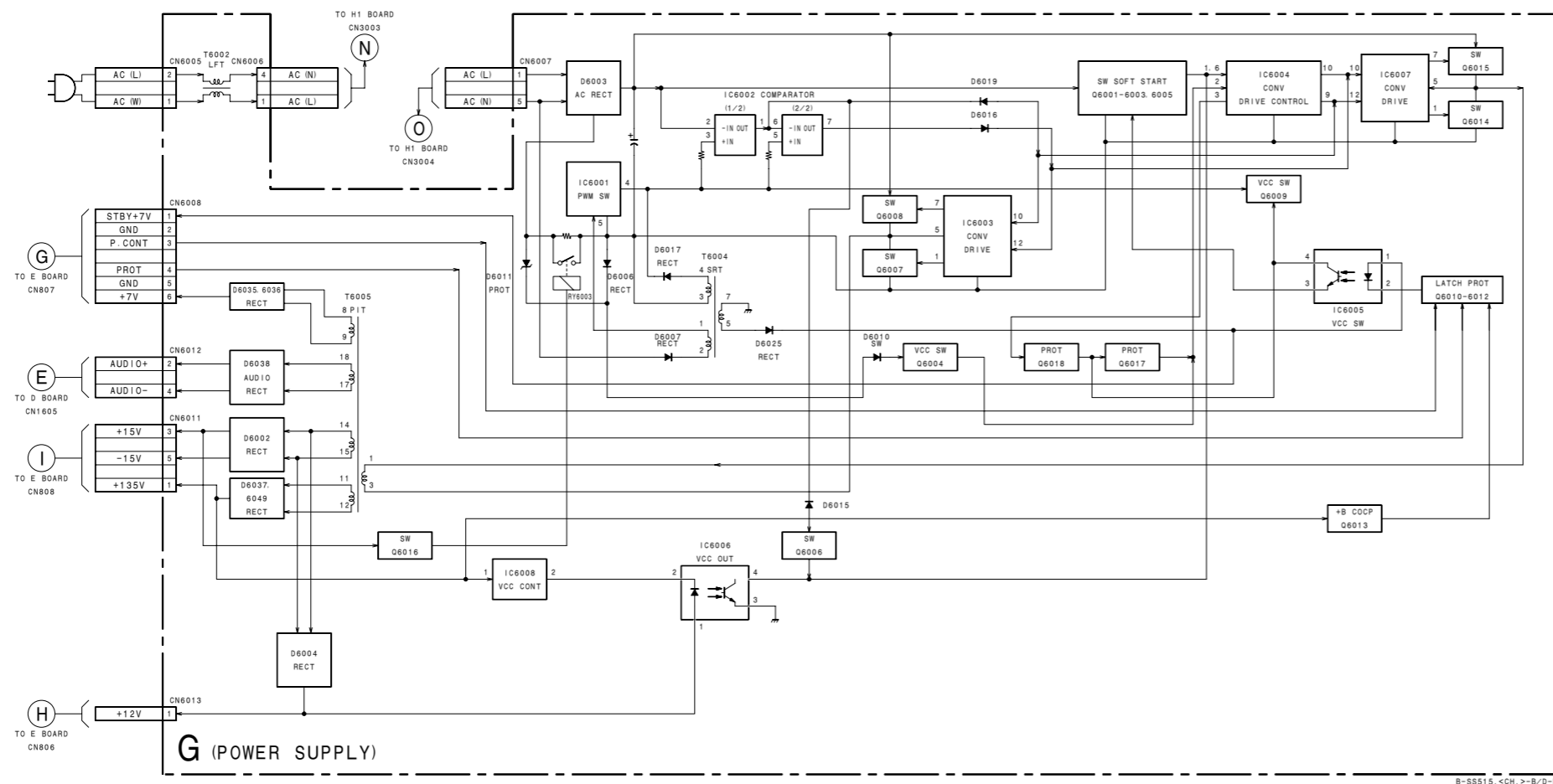
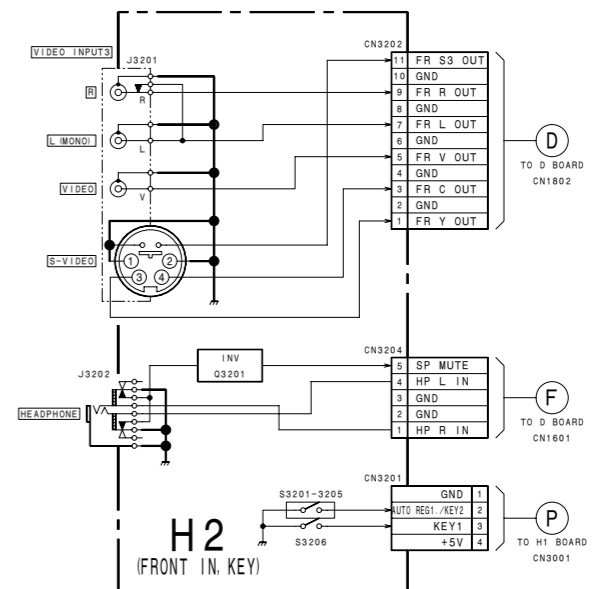
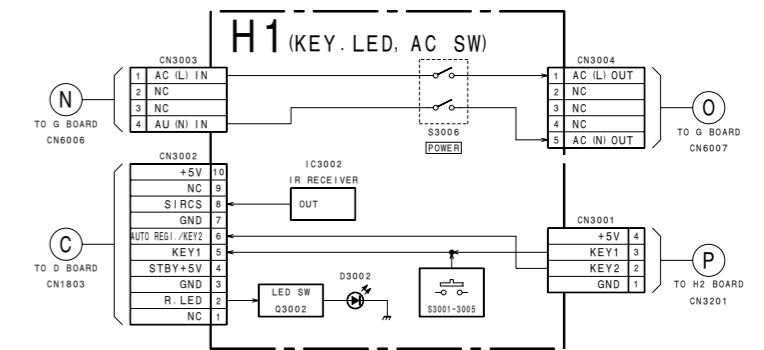
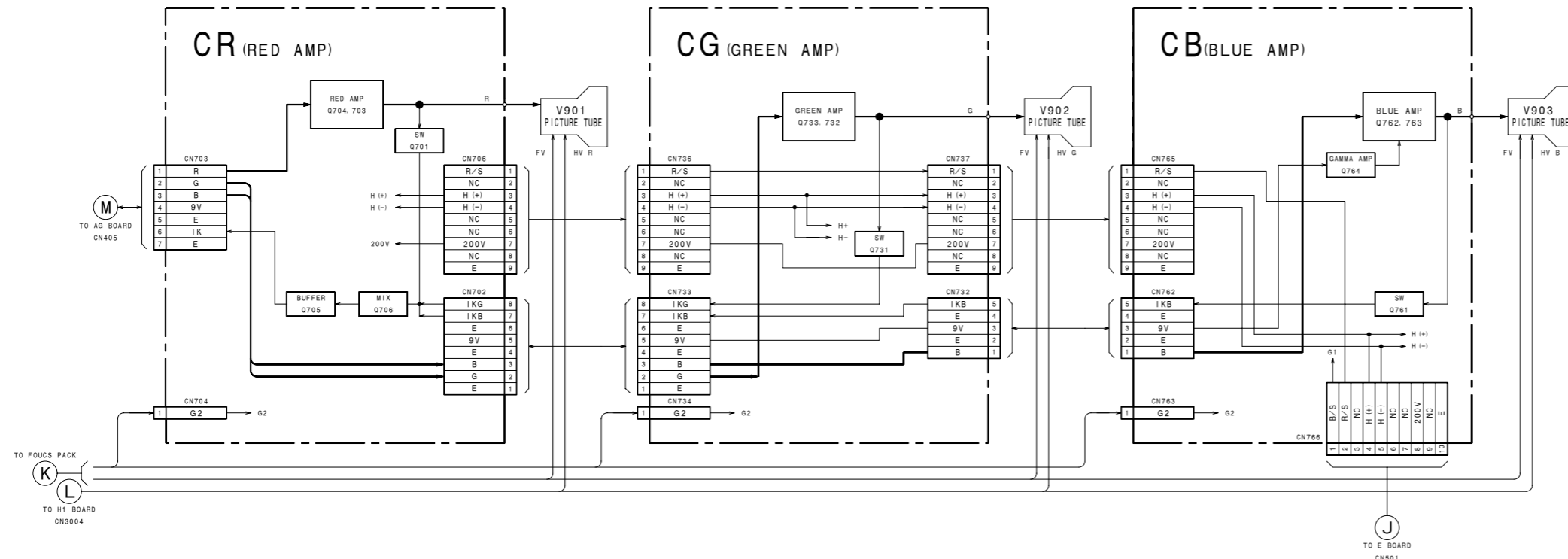
6. Input a PAL color-bar, video into video 1.
7. Adjust 38 SH2 as step 2 to 5.
8. Press [MUTING] → [0] of the commander to write the data.

6-1. BLOCK DIAGRAMS

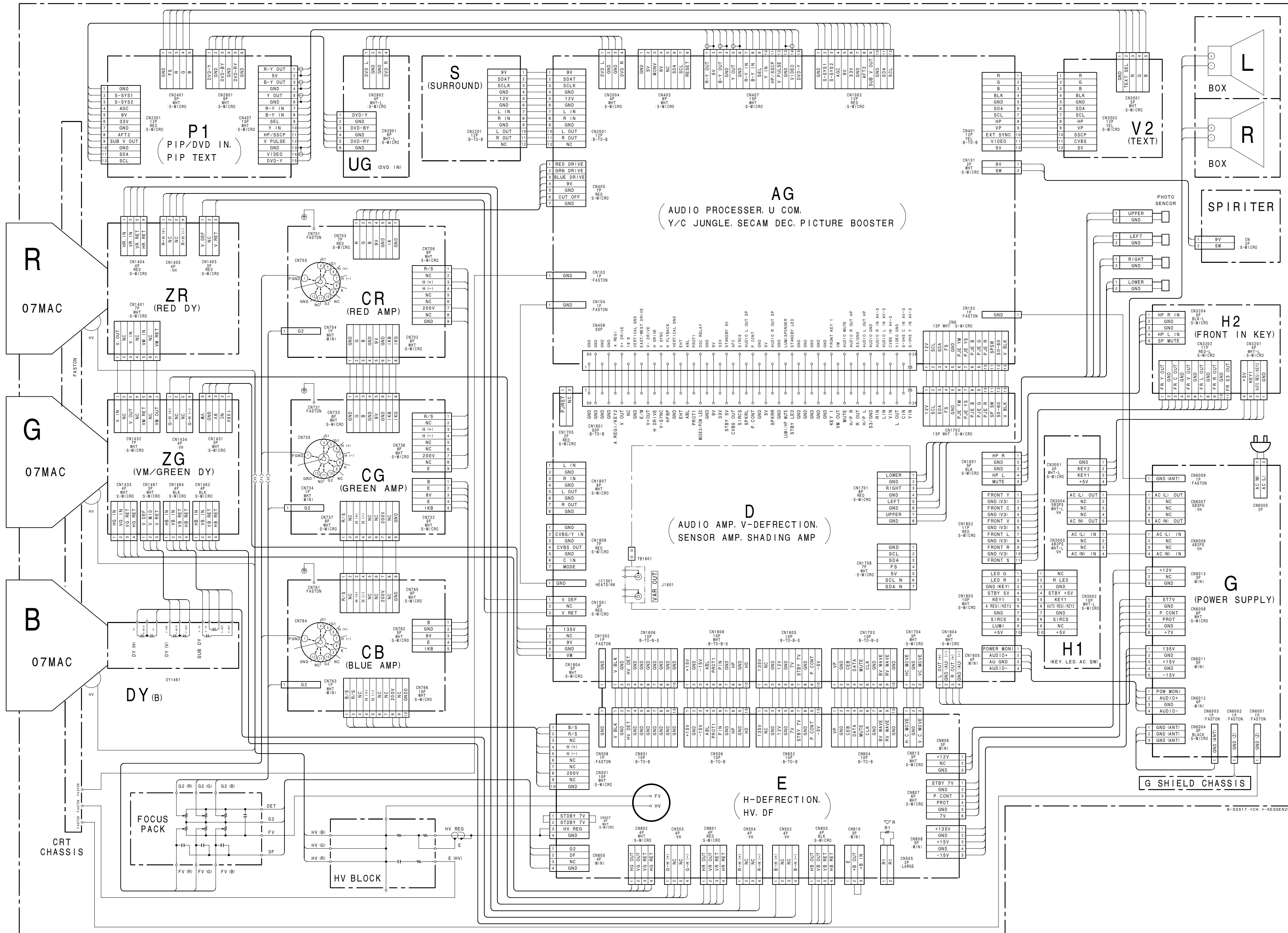




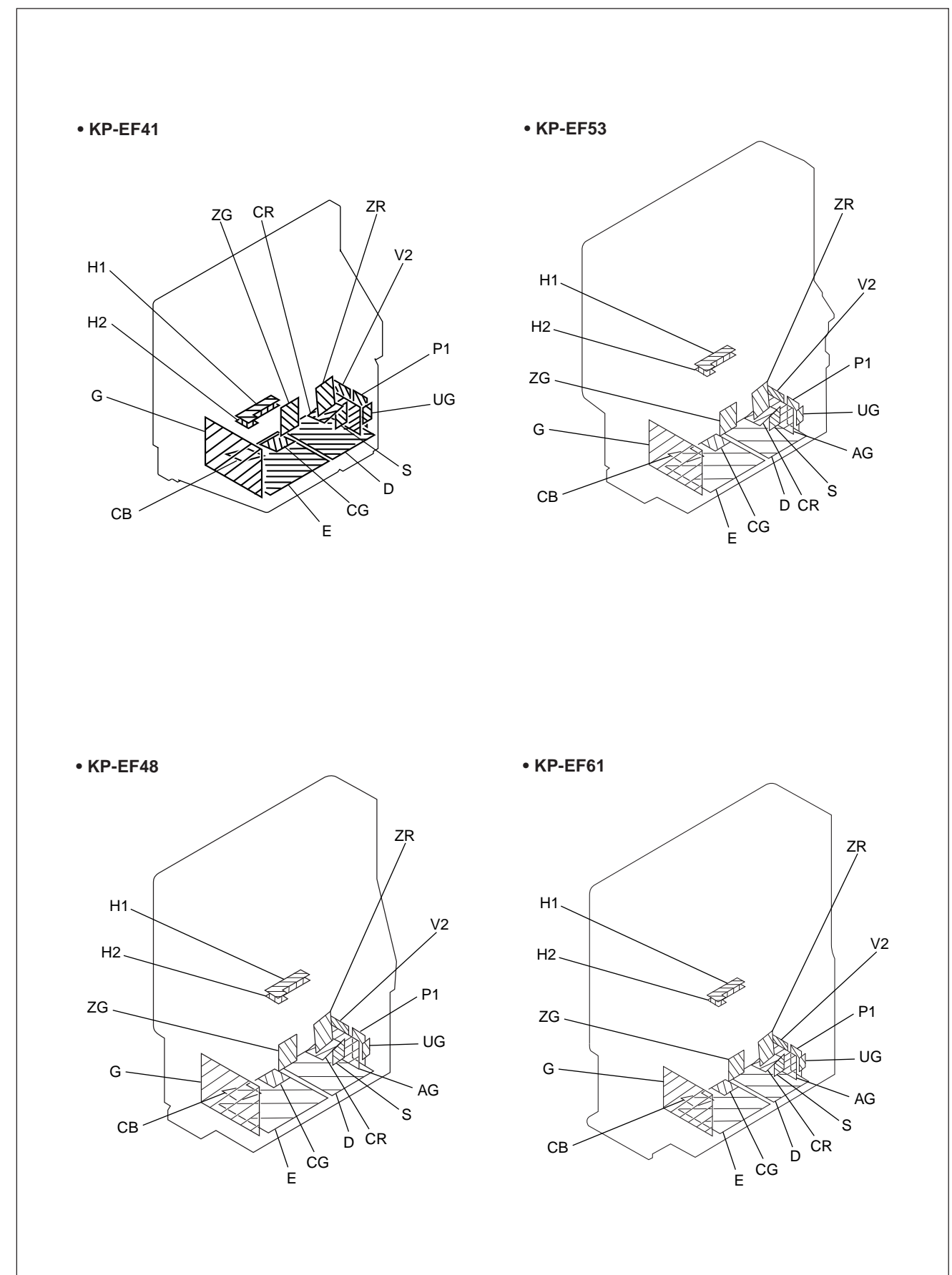




6-2. FRAME SCHEMATIC DIAGRAM












6-3. CIRCUIT BOARDS LOCATION



Note:

- All capacitors are in μF unless otherwise noted. (pF : μpF) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

- All resistors are in ohms.
-  : nonflammable resistor.
-  : fusible resistor.
-  : internal component.
-  : panel designation, and adjustment for repair.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : earth-ground.
-  : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.
- NO MARK: Common
- < : SECAM
- () : NTSC 3.58 MHz
- Circled numbers are waveform references.
-  : B + bus.
-  : B - bus.
-  : Signal path.

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF, BL	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RRI

(Chip semiconductors that are not actually used are included.)

(Chip semiconductors that are not actually used are included.)

- 65 –

IC			Q423		C-4	②
	(Conductor Side)	(Component Side)	Q425	A-5		③
IC301	B-4	B-1	Q426	A-5		④
IC401		C-5	Q401	B-1		⑤
IC402		B-2	Q2002	B-1	B-5	⑥
IC403		C-5	Q2003			⑦
IC404		A-1	Q2004	B-2		⑧
IC1001		C-5	Q2005	C-1		⑨
IC1002		A-2	Q2006	C-1		⑩
IC1003		A-1	Q2007	B-1		⑪
IC2001	B-3	B-3	Q2008	B-2		⑫
IC2002		B-4	Q2009	B-2		⑬
IC2003		B-4	Q210	B-1	B-4	⑭
IC2004		B-4	Q211	B-1	B-5	⑮
IC2005		B-4	Q212	B-1		⑯
IC2006		B-4				⑰
DIODE						
TRANSISTOR			(Conductor Side)	(Component Side)		*
	(Conductor Side)	(Component Side)				
Q101	A2	A-3	D101	A-2		①
Q102	A2		D102	A-2		②
Q103	A4		D103	A-1	A-4	③
Q104	A3		D104	A-3		④
Q301		C-2	D306		C-1	⑤
Q303	C-4		D402	B-3	C-1	⑥
Q304	C-4		D403	C-5		⑦
Q308	B-4		D414	C-1		⑧
Q309		B-1	D2001		B-5	⑨
Q310		C-1	D2002	B-1		⑩
Q311		C-2	D2003	A-1		⑪
Q312		C-1	D2004	B-1		⑫
Q313	B-3		D2005	B-1		⑬
Q401	B-5		D2006	B-1		⑭
Q402	B-5		D2007	B-1		⑮
Q403		B-1	D2008	B-1		⑯
Q404		B-1	D2009	B-1		⑰
Q405		B-1	D2010	B-1		⑱
Q406	C-1		D2011	C-1		⑲
Q407	C-1		D2012	C-1		⑳
Q408	B-4		D2013	C-1		㉑
Q409	B-5		D2014	C-1		㉒
Q410	B-5		D2015	C-2		㉓
Q412		B-2				㉔
Q414		C-5				㉕
Q415		B-5				㉖
Q416	C-1		CRYSTAL			
Q417		C-4	(Conductor Side)	(Component Side)		
Q418	C-2		X301	C	C-2	①
Q419		C-4	X302	B-4	B-2	②
Q420		C-4	X303	B-4	B-2	③
Q421		C-4	X1001	A-4	A-2	④
Q422	C-2		X2001	B-2	B-3	⑤

- 65 -



- 70 -



AG (2/3) BOARD WAVEFORMS

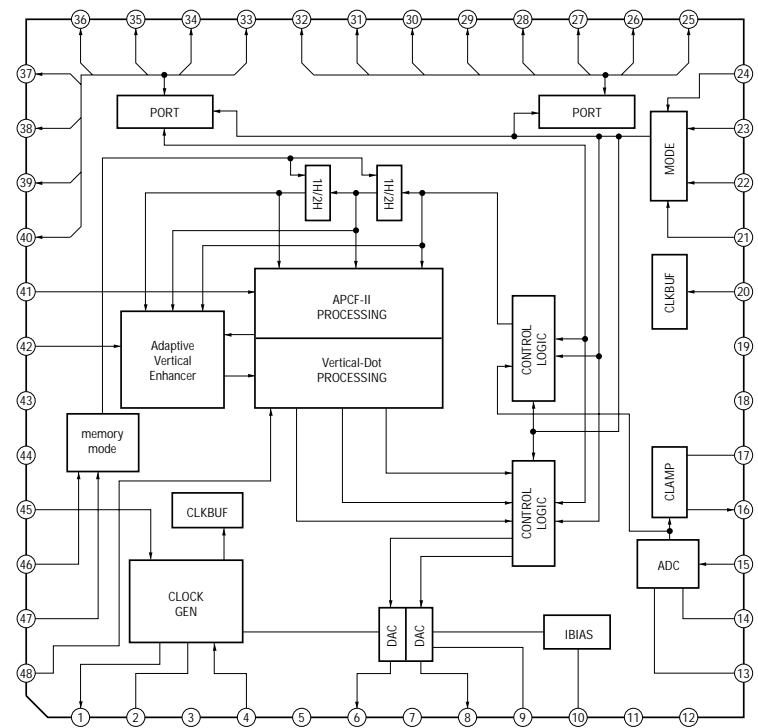
① PAL 0.9 Vp-p (H)	① NTSC 1.0 Vp-p (H)	① SECAM 0.9 Vp-p (H)	② PAL 0.6 Vp-p (H) SECAM: 1.1 Vp-p (H)	② NTSC 0.7 Vp-p (H)	③ PAL 0.7 Vp-p (H) SECAM: 1.5 Vp-p (H)	③ NTSC 0.8 Vp-p (H)	④ PAL/SECAM 1.1 Vp-p (H)
④ NTSC 1.3 Vp-p (H)	⑤ PAL/SECAM 1.4 Vp-p (H)	⑤ NTSC 1.6 Vp-p (H)	⑥ PAL 0.9 Vp-p (H)	⑥ NTSC 1.0 Vp-p (H)	⑥ SECAM 1.0 Vp-p (H)	⑦ PAL 0.5 Vp-p (H)	⑦ NTSC 0.6 Vp-p (H)
⑦ SECAM 1.0 Vp-p (H)	⑧ PAL 1.5 Vp-p (H)	⑧ NTSC 1.8 Vp-p (H)	⑧ SECAM 1.6 Vp-p (H)	⑨ 4.6 Vp-p (H)	⑩ 5.3 Vp-p (V)	⑪ 5.3 Vp-p (V)	⑫ 4.6 Vp-p (H)
⑬ 5.0 Vp-p (4MHz)	⑭ PAL 0.5 Vp-p (H)	⑭ NTSC 1.0 Vp-p (H)	⑭ SECAM 1.2 Vp-p (H)	⑮ PAL 0.8 Vp-p (H)	⑮ NTSC 1.0 Vp-p (H)	⑮ SECAM 1.0 Vp-p (H)	⑯ PAL 0.9 Vp-p (H)
⑮ NTSC 1.0 Vp-p (H)	⑮ SECAM 1.0 Vp-p (H)	⑰ 4.8 Vp-p (H)	⑰ SECAM 4.9 Vp-p (H)	⑱ 0.5 Vp-p (V)	⑲ 1.3 Vp-p (V)	⑲ 1.3 Vp-p (V)	⑲ PAL : 0.6 Vp-p (H) SECAM: 1.1 Vp-p (H)
⑲ NTSC 0.7 Vp-p (H)	⑲ SECAM 0.7 Vp-p (H)	⑲ NTSC 0.8 Vp-p (H)	⑲ PAL/SECAM 1.0 Vp-p (H)	⑲ NTSC 1.1 Vp-p (H)	⑲ SECAM 4.5 Vp-p (H)	⑲ PAL/SECAM 0.9 Vp-p (H)	⑲ NTSC 1.1 Vp-p (H)
⑲ PAL/SECAM 1.1 Vp-p (H)	⑲ NTSC 1.3 Vp-p (H)	⑲ PAL/SECAM 1.4 Vp-p (H)	⑲ NTSC 1.6 Vp-p (H)	⑲ PAL/SECAM 3.4 Vp-p (H)	⑲ NTSC 4.2 Vp-p (H)	⑲ PAL/SECAM 3.4 Vp-p (H)	⑲ NTSC 3.8 Vp-p (H)
⑲ PAL/SECAM 3.4 Vp-p (H)	⑲ NTSC 3.8 Vp-p (H)						

AG (2/3) BOARD VOLTAGE LIST

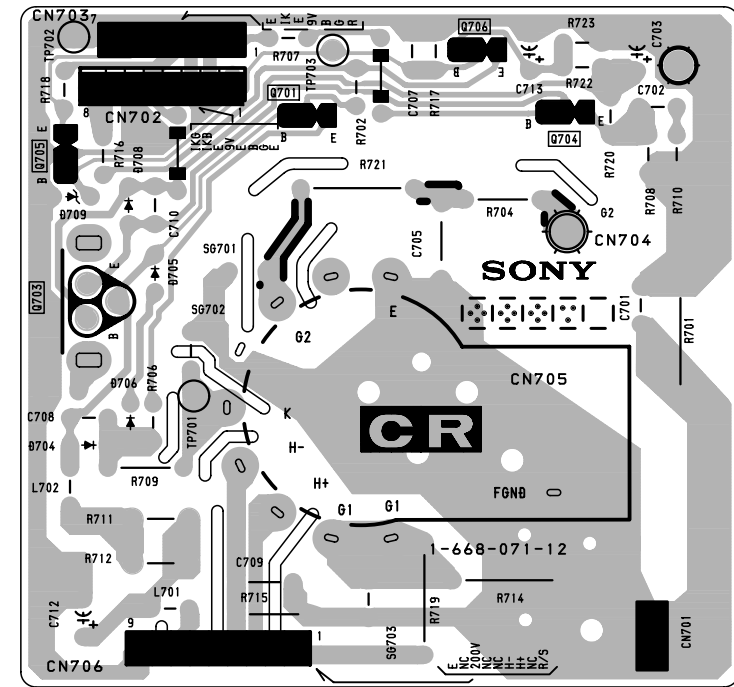
Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC301	1	8.9		14	0.7		24	5.2	Q403	B	0
	2	5.8		15	1.5		25	5.2		C	4.9
	3	2.4 (7.4) <2.4>		16	4.9		26	2.5		E	0
	4	7.5 (*) <7.5>		25	2.5		29	*			
	6	5.2		26	2.5		32	5.2		B	0
	7	1.6 (1.6) <5.0>		29	0		33	3.9		C	4.9
	9	5.8		30	0		34	2.8		E	0
	10	5.8		33	2.7		35	5.2			
	11	3.8		34	0.5		36	0	Q405	B	0
	12	0.9		35	0.6		37	5.2		C	4.9
	13	5.1		36	4.8		38	5.2		E	0
	14	5.6		41	0.5		39	2.9	Q406	B	3.8
	15	5.5		42	0.5		40	3.0		C	4.9
	17	0		43	0		41	0		E	3.3
	18	5.6		44	4.9		42	0			
	19	5.5		45	2.4		43	0	Q407	B	0.7
	20	5.5		46	0 (5.2) <0>		44	0		C	4.9
	21	0		47	0		45	0		E	0.5
	22	0					46	0			
	23	5.6	IC402	1	1.6 (1.6) <0>		47	5.2	Q408	B	4.5
	24	5.5		5	8.2		48	4.8		C	8.9
	25	5.6		9	3.3		49	5.3		E	3.9
	26	8.9		10	4.4		50	4.8	Q409	B	2.4
	27	1.9		11	5.8 (5.8) <3.1>		51	0		C	8.9
	28	2.0		12	5.8 (5.8) <3.1>		52	0		E	1.8
	29	2.8		18	0 (0) <2.0>		53	0	Q410	B	3.6
	30	1.8		21	0.9		54	0		C	4.5
	31	2.1		20	0.3		55	5.2		E	2.9
	32	1.9	IC403	1	4.9		56	5.2	Q412	B	0.9
	33	5.0		5	0.9		59	0.8		E	1.6
	34	2.6		9	4.9		60	0.7	Q414	B	1.4
	35	8.8		11	3.2		61	0 (5.2) <0>		C	4.9
	36	0.6	IC404	1	0		62	0		E	1.5
	37	3.0		2	0		63	0	Q415	B	1.4
	38	3.0		3	0.5		64	0		E	0.8
	39	4.0		4	2.7	Q303	B	6.1	Q416	B	4.3
	40	4.3		5	0.5		C	8.9		C	3.0
	41	4.7		6	0.5		E	5.4		E	4.9
	42	8.9		7	*						
	43	3.3	Q304	9	2.8		5	5.2	Q417	B	2.0
	44	3.5		10	2.8		6	5.4		C	4.3
	45	4.6		14	4.9		7	4.9		E	1.3
	46	4.2		15	4.9	Q308	B	3.9			
	47	2.5					C	8.9	Q418	B	1.0
	49	1.8	IC1001	5	5.2		E	3.2		E	1.7
	50	8.9		6	5.2	Q309	B	0.3	Q419	B	3.0
	51	2.6		8	5.2		C	8.9		E	3.7
	52	4.0					E	0	Q420	B	4.4
	53	3.3	IC1002	1	5.2					C	2.4
	54	4.7		3	5.2	Q310	B	4.3		E	4.9
	55	6.1					C	0	Q421	B	2.0
	56	4.8	IC1003	1	0					C	4.4
	57	4.8		2	0	Q311	B	0		E	1.4
	58	3.4		3	5.2		C	3.5	Q422	B	1.0
	59	4.3								E	1.7
	60	4.0	IC401	1	2.0				Q423	B	2.3
	61	5.2		2	5.2	Q312	B	0		E	3.0
	62	4.1		3	5.2		C	3.6	Q425	B	0
	63	3.8		4	0 (0) <2.0>					C	4.9
	64	4.2				Q402	B	0		E	0
							C	5.3	Q426	B	0
										C	4.9
										E	0

(3) Schematic Diagrams of AG (3/3), CB, CG and CR Boards

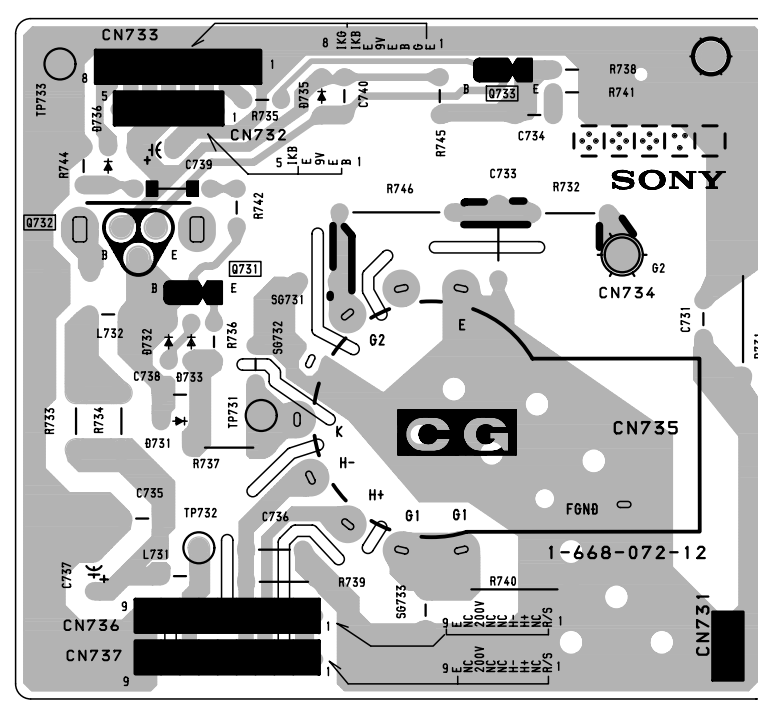
• AG (2/3) BOARD IC401 MC141627FT



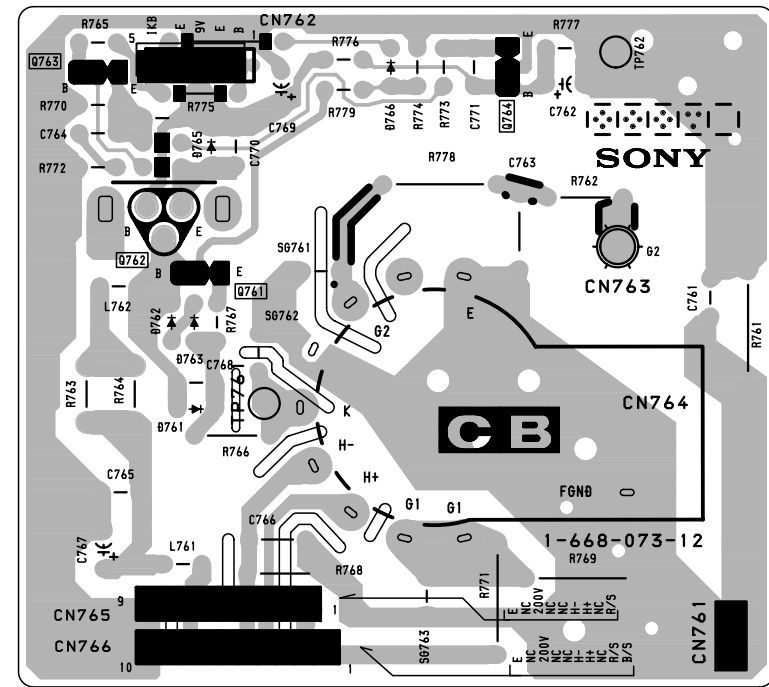
— CR BOARD —



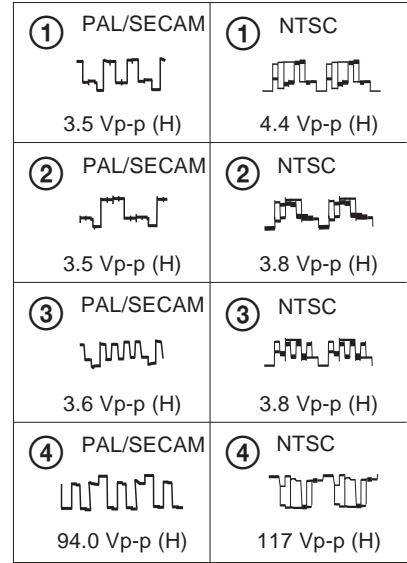
— CG BOARD —



— CB BOARD —



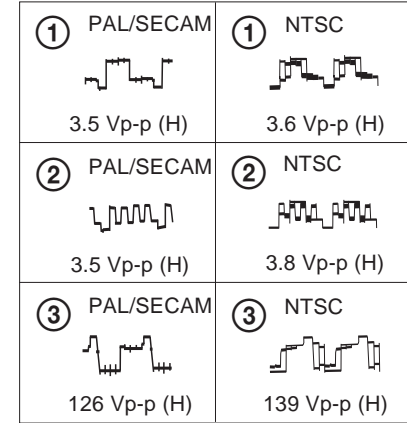
• CR BOARD WAVEFORMS



• CR BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
Q701	B	164
	C	3.3
	E	163
Q703	B	9.2
	C	164
	E	8.9
Q704	B	1.9
	C	8.9
	E	1.5
Q705	B	3.3
	E	3.5
Q706	B	6.1
	C	3.3
	E	4.5

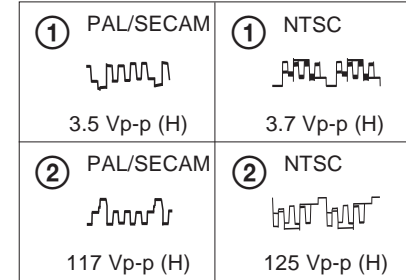
• CG BOARD WAVEFORMS



• CG BOARD VOLTAGE LIST

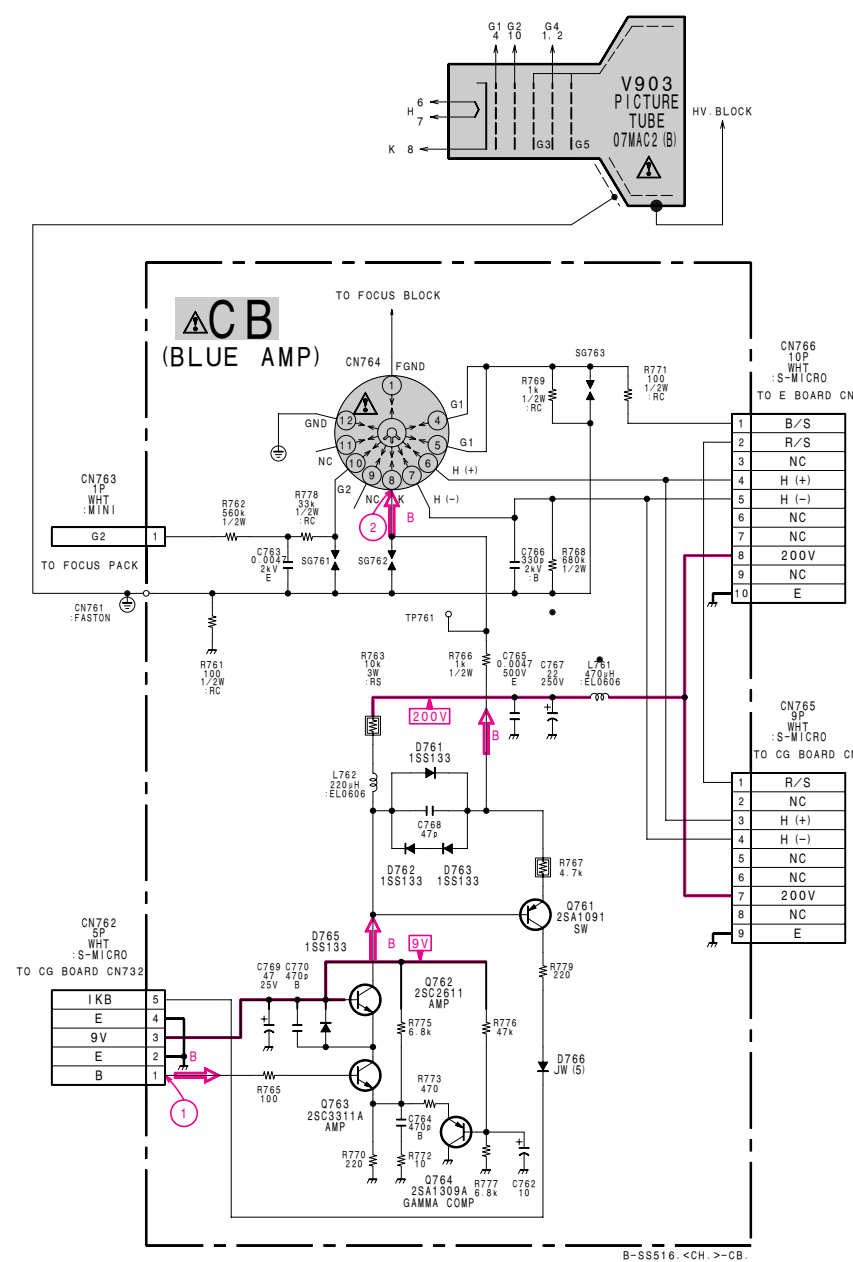
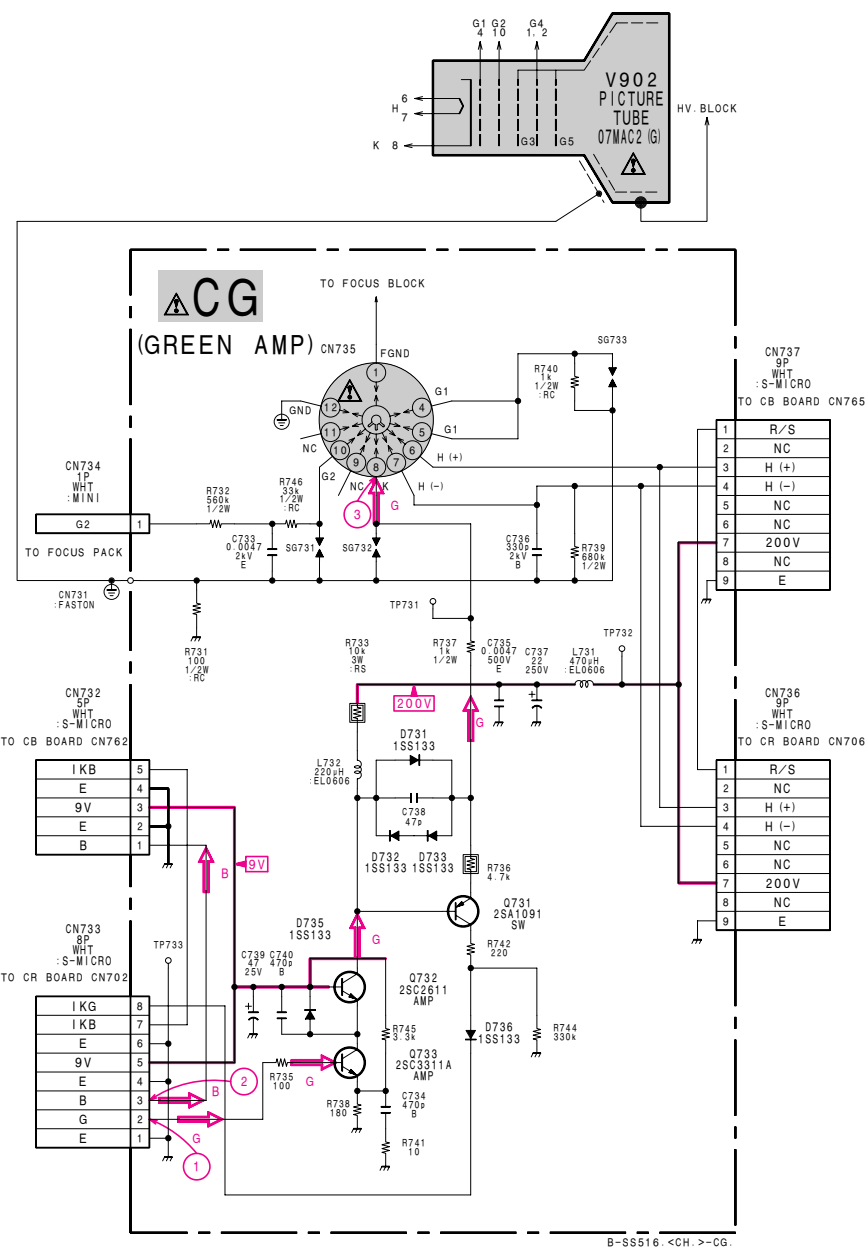
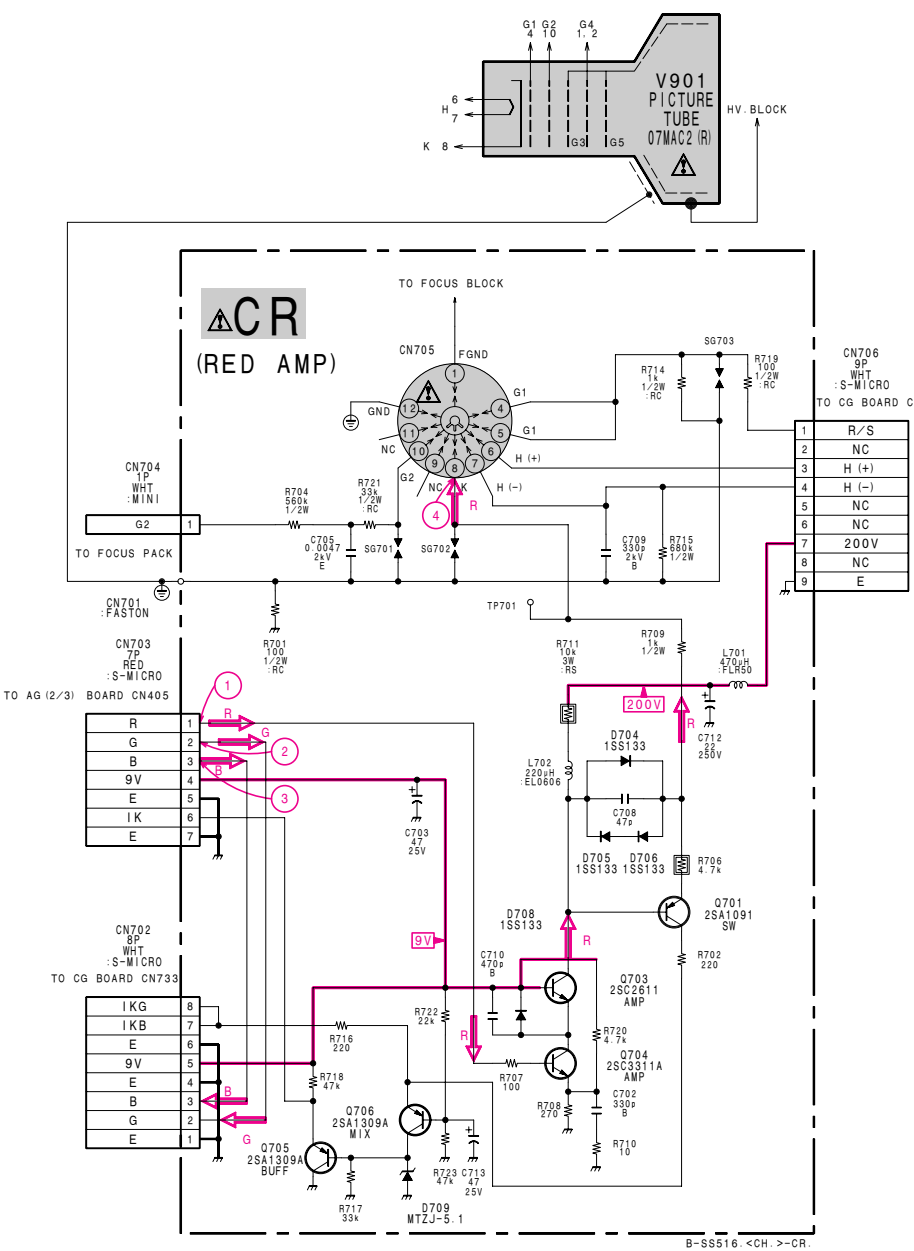
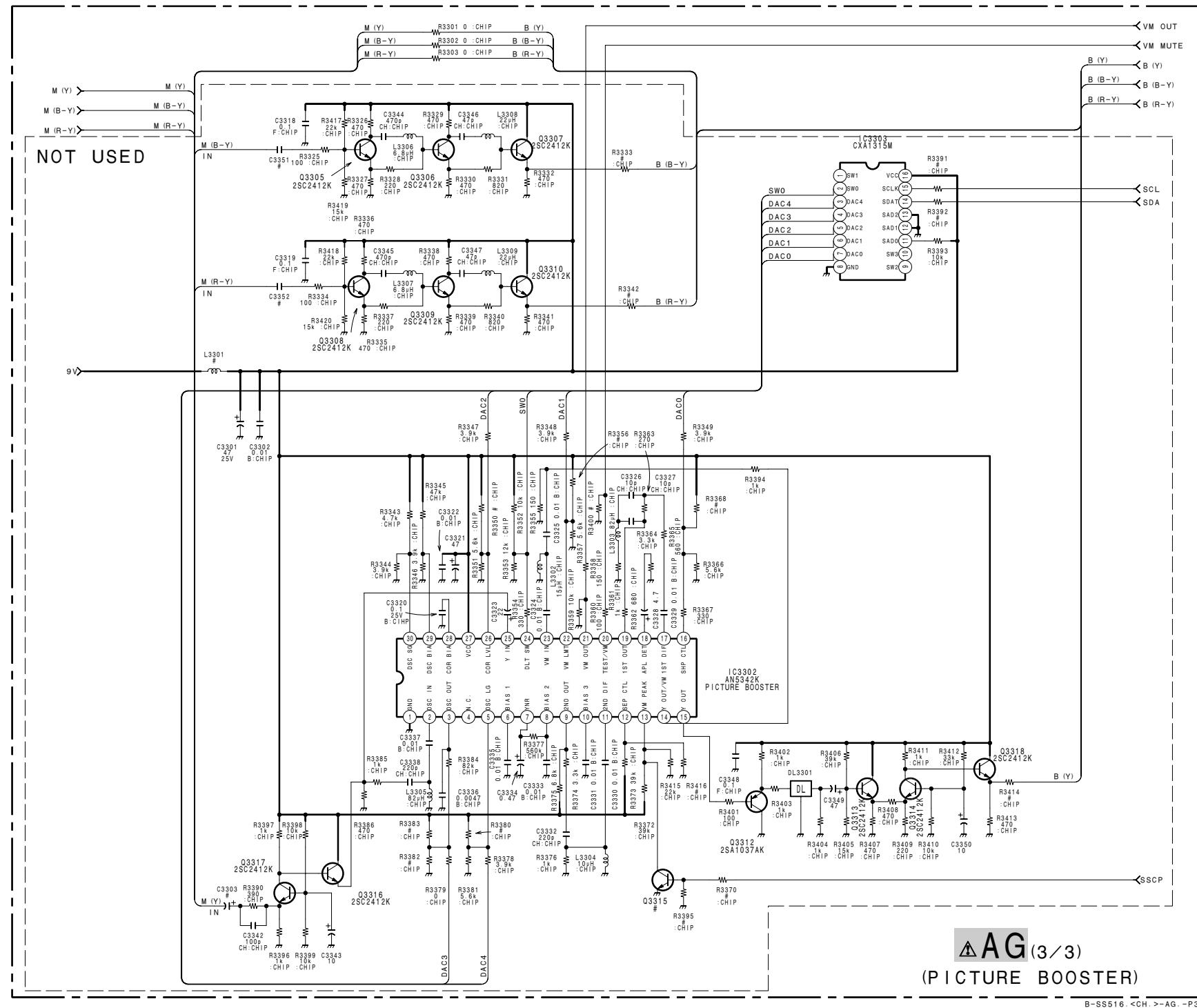
Ref.	Pin No.	Voltage [V]
Q731	B	152
	C	0
	E	152
Q732	B	9.2
	C	152
	E	8.7
Q733	B	1.9
	C	8.7
	E	1.6

• CB BOARD WAVEFORMS



• CB BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
Q761	B	151
	C	9.8
	E	155
Q762	B	9.2
	C	151
	E	8.8
Q763	B	1.9
	C	8.8
	E	1.4
Q764	B	1.1
	E	1.3

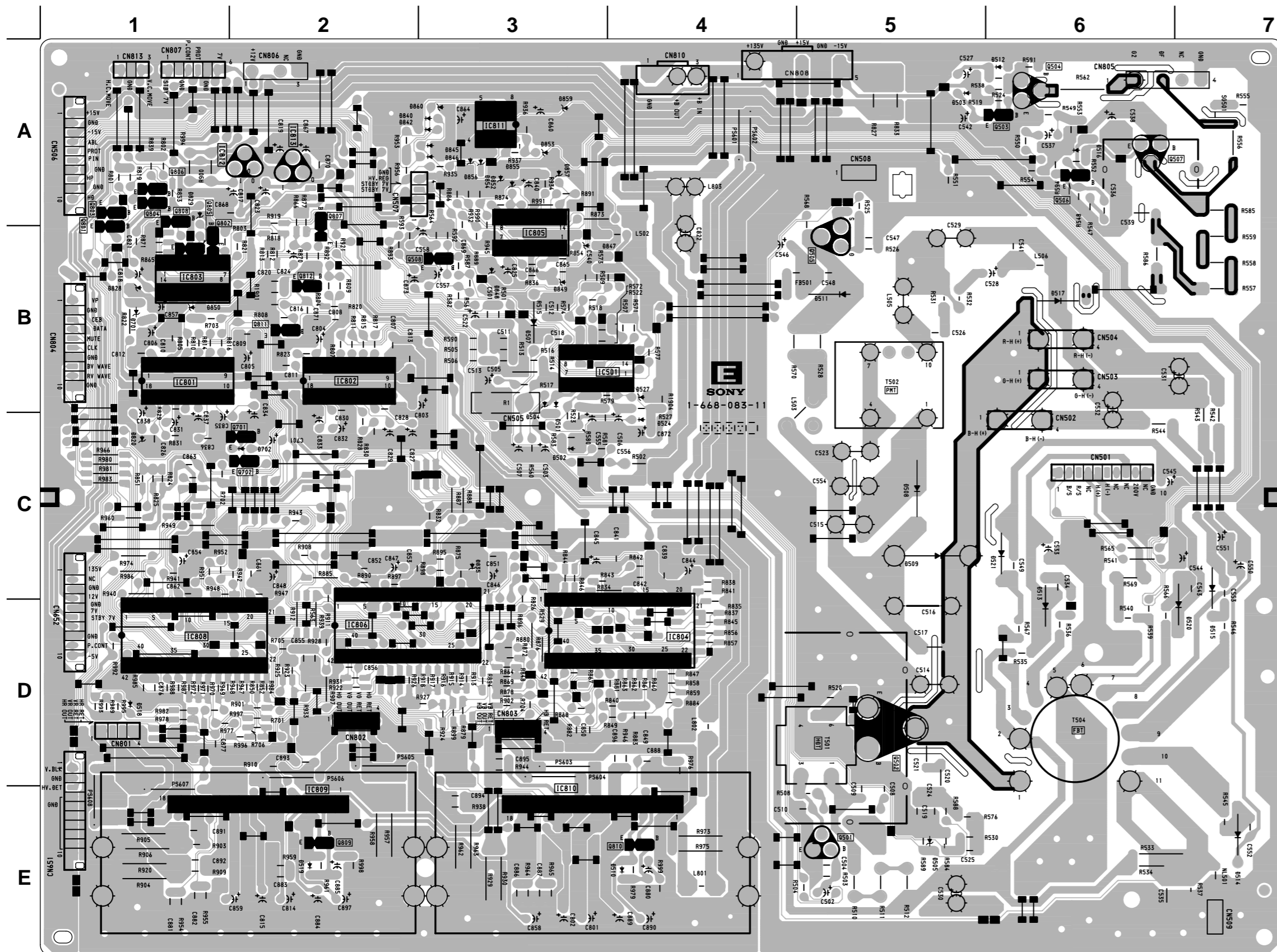


• E BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]		
IC501	1	0	6	-0.4	16	-0.8	36	0	Q504	B	0		
	2	0	7	-5.1	17	0	37	0		C	670		
	3	12.6	8	5.2	18	-0.9	38	0					
	4	6.2	9	-5.1	19	0	39	0	Q505	B	0		
	5	1.9	14	-2.1	20	-0.5	40	0.3		C	10.3		
	6	8.6	15	0	21	5.2	41	0		C	23.0		
	7	8.3	16	-0.8	22	0	IC809	3	-13.4	Q506	B	1.9	
	8	1.7	17	0	23	-0.4		4	-14.6		C	11.9	
	9	2.5	18	-0.9	24	0		5	14.8		E	1.3	
	10	4.7	19	0	25	0	6	0	Q507	B	12.6		
	11	1.9	20	-0.6	26	0	7	0		C	685		
	13	1.7	21	5.2	27	0	8	-14.6		E	12.1		
	14	10.3	22	0	28	0	9	0	Q508	B	4.1		
	IC801	1	0	23	0	29	0	10		14.8	C	8.3	
2		1.3	24	0	30	0.3	11	0		E	3.5		
3		5.2	25	0	31	4.9	12	-14.6	Q701	B	4.8		
4		0	26	0	32	0.2	13	0		C	0		
5		-0.9	27	0	33	5.2	14	0		Q702	B	0.2	
6		0	28	-0.2	34	4.8	15	0.4	C		4.8		
7		-1.1	29	-0.5	35	0	16	0.4					
8		-5.1	30	-0.5	36	0	17	-14.6	Q801	B	2.4		
9		0.5	31	4.9	37	0	18	0		C	5.2		
10		-0.8	32	0.2	38	0	19	0		E	1.9		
12		0.3	33	5.1	39	0	IC810	3	-13.4	Q802	B	5.0	
13		0.3	34	4.9	40	0		4	-14.6		C	2.2	
14		1.3	35	0	41	0		5	14.8		E	5.9	
16		-1.4	36	0	IC808	1	0	10	14.8	Q803	B	2.4	
17	1.3	37	0	7		-0.4	11	0	C		5.2		
18	-0.7	38	0	8		-1.2	12	-14.6	E		1.9		
IC802	1	0.4	39	0	4	-1.2	9	0	Q804	B	2.4		
	2	1.3	40	0.2	5	0	10	14.8		C	-5.1		
	3	5.2	41	0	6	-0.4	11	-14.6		E	1.9		
	4	0	IC805	1	7.6	7	5.2	12	-14.6	Q805	B	2.2	
	5	-0.9		2	7.6	8	5.2	13	0		C	12.6	
	6	0		3	7.4	9	-5.1	14	0		E	1.5	
	7	-1.1	4	12.6	10	4.9	15	0	Q806	B	2.4		
	8	-5.1	5	0	11	5.1	16	0		C	-5.1		
	9	0.6	6	0	12	0.2	17	-14.6		E	1.8		
	10	-0.9	7	0	13	4.8	18	0.5	Q808	B	0		
	12	0.3	8	-0.8	14	-2.0	IC811	1		0	C	2.2	
	14	1.3	9	0	15	-0.9		2		0	E	1.5	
	16	-1.8	10	0	16	-0.9		3	0	Q809	B	-14.6	
	17	1.4	11	-12.6	17	0	4	-12.6	C		-13.4		
18	-1.6	12	0	18	-0.9	5	0	E	-14.6				
IC803	1	0	13	0	19	0	6	0	Q810	B	-14.6		
	2	0	14	0.9	20	-0.6	7	0		C	-13.4		
	3	0	21	5.2	21	5.2	8	12.6		E	-14.6		
	4	0	IC806	1	0	22	0	IC812	I	7.0	Q811	B	0
	5	1.5		2	-0.9	23	0		O	5.2		C	0.4
	6	0		3	-1.1	24	0		IC813	O		-11.5	B
	7	0	4	0	25	-0.2	Q501	B		-0.7	C	-13.4	
	8	0	5	0	26	0		C		49.5	E	-14.6	
	9	0	6	0	27	0		Q502	B	0	Q812	B	0
	10	0	7	5.2	28	0	B		0	C		0	
	11	0	8	-0.4	29	0.3	C		140				
	12	0	9	-5.1	30	-0.3	Q503	B	7.1	Q812	B	3.0	
	13	5.2	10	4.9	31	0.1		C	0		C	0	
	14	-5.1	11	-2.0	32	5.2					E	0.7	
IC804	1	0	11	5.2	31	4.7							
	2	-0.9	12	0.3	32	0.1							
	3	0	13	4.9	33	5.2							
	4	-1.1	14	-2.0	34	4.9							
	5	0	15	0	35	0							

— E BOARD —

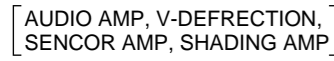
E [H-DEFLECTION,
HV, DF



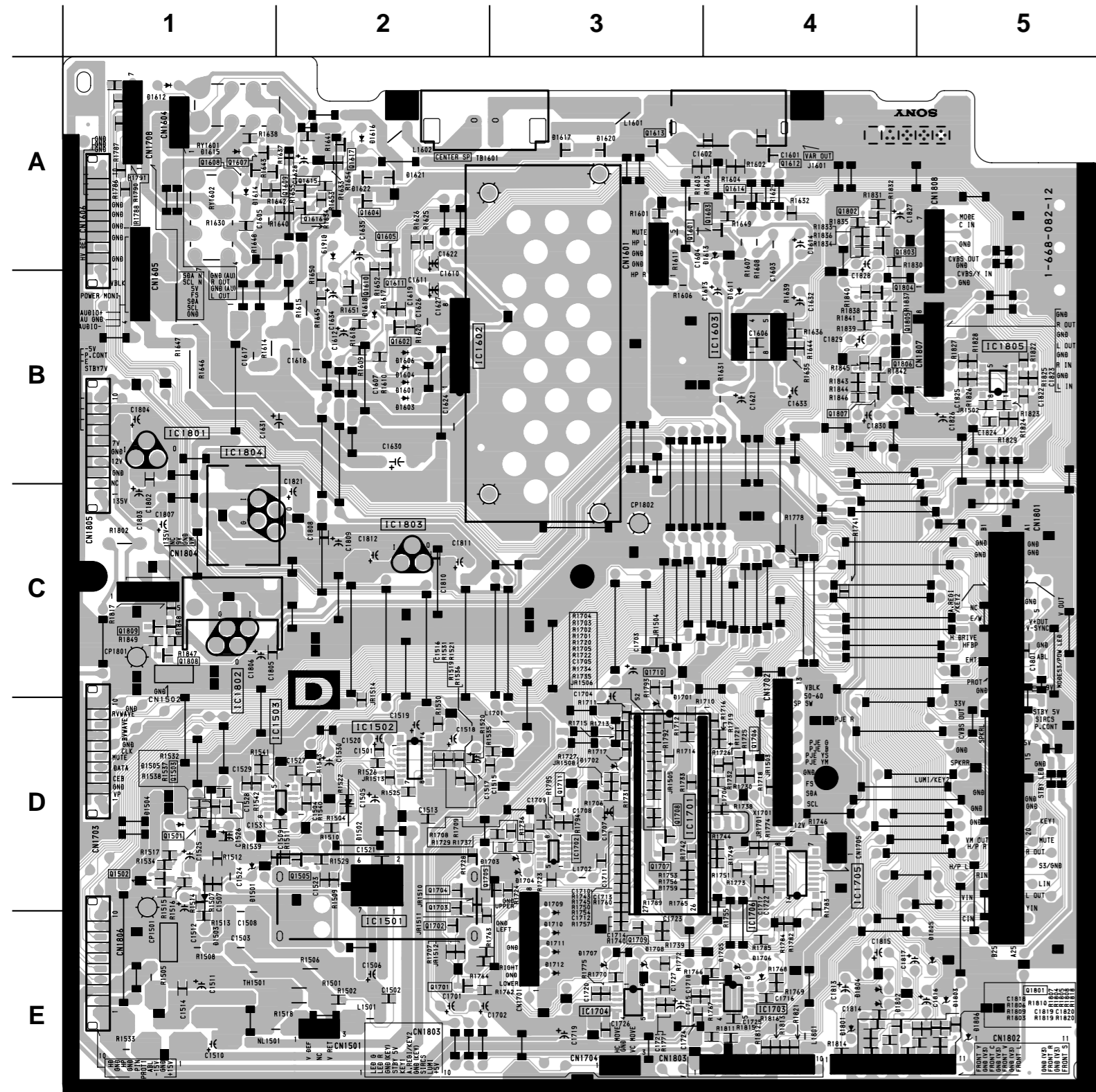
• E BOARD SEMICONDUCTOR LOCATION

IC		Q808 A-1	
		Q809 E-2	Q810 E-4
IC501	B-3	Q811 B-2	Q812 B-2
IC801	B-1	DIODE	
IC802	B-2		
IC803	B-1		
IC804	D-4		
IC805	B-3		
IC806	D-2		
IC808	D-1		
IC809	E-2		
IC810	E-3		
IC811	A-3		
IC812	A-2		
IC813	A-2		
TRANSISTOR			
Q501	E-5		
Q502	D-5		
Q503	A-6		
Q504	A-6		
Q505	B-5		
Q506	A-6		
Q507	A-6		
Q508	B-3		
Q701	C-2		
Q702	C-2		
Q801	A-1		
Q802	B-1		
Q803	A-1		
Q804	A-1		
Q805	B-1		
Q806	A-1		
Q807	B-2		

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)



— D BOARD (Conductor Side) —



- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

- D BOARD SEMICONDUCTOR LOCATION

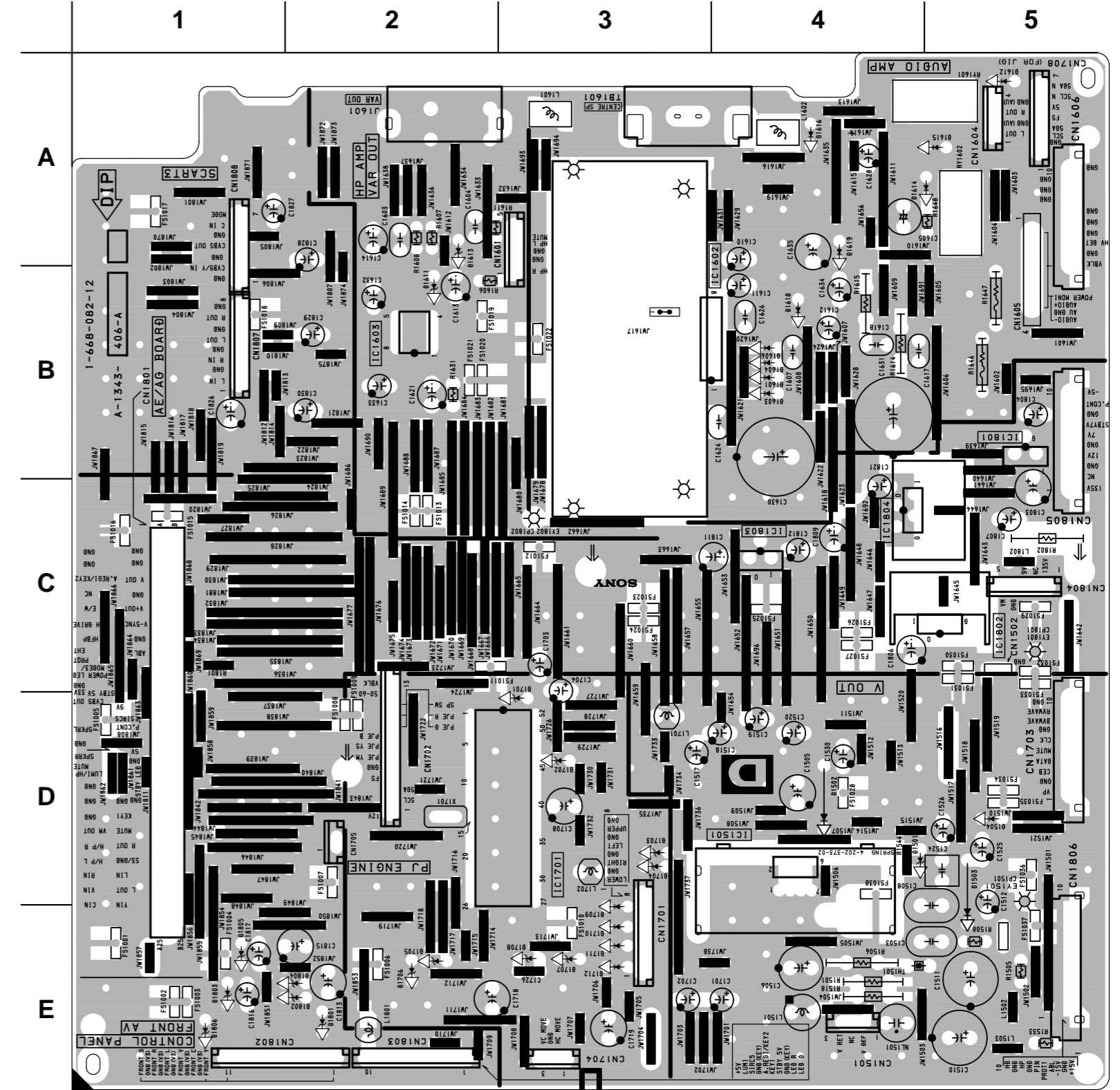
IC				
	(Conductor Side)	(Component Side)		
IC1501	D-1	D-4		
IC1502	D-2			
IC1503	D-1			
IC1602	B-2	B-3		
IC1603	B-4	B-2		
IC1701	D-3	D-3		
IC1702	D-3			
IC1703	E-4			
IC1704	E-3			
IC1706	D-4			
IC1801	B-1	B-5		
IC1802	C-1	C-5		
IC1803	C-2	C-4		
IC1804	C-1	C-4		
IC1805	B-5			

TRANSISTOR				
	(Conductor Side)	(Component Side)*		
Q1501	D-1	①		
Q1502	D-1	①		
Q1503	D-1	①		
Q1505	D-2	①		
Q1601	A-4	①		
Q1602	B-2	①		
Q1603	A-3	①		
Q1604	A-2	①		
Q1605	A-2	①		
Q1607	A-1	①		
Q1608	A-1	①		
Q1609	A-1	①		
Q1610	B-2	①		
Q1611	B-2	①		
Q1612	A-4	①		
Q1613	A-3	①		
Q1614	A-4	①		
Q1615	A-2	①		
Q1616	A-2	①		
Q1617	A-2	①		
Q1701	E-2	①		
Q1702	E-2	①		
Q1703	D-2	①		
Q1704	D-2	①		
Q1705	D-2	①		
Q1706	D-4	①		
Q1707	D-3	①		
Q1708	D-3	①		

DIODE			
	(Conductor Side)	(Component Side)*	
D1501	D-1	D-4	-
D1502	D-2	D-4	-
D1503	D-1	D-5	-
D1504	D-1	D-5	-
D1505	D-1		⑧
D1601	B-2	B-4	-
D1603	B-2	B-4	-
D1604	B-2	B-4	-
D1606	B-2	B-4	-
D1611	B-4	B-2	-
D1612	A-1	A-5	-
D1613	A-4	A-2	-
D1614	A-1	A-5	-
D1615	A-1	A-5	-
D1616	A-2	A-4	-
D1617	A-3		④
D1618	B-2	B-4	-
D1619	A-2	A-4	-
D1620	A-3		④
D1621	A-2		④
D1622	A-2		④
D1703	D-3	D-3	-
D1704	D-3	D-3	-
D1705	E-4	E-2	-
D1706	E-4	E-2	-
D1707	E-3	E-3	-
D1708	E-3	E-3	-
D1801	E-4	E-2	-
D1802	E-4	E-2	-
D1803	E-5	E-1	-
D1804	E-4	E-2	-
D1805	E-5	E-1	-
D1806	E-5	E-1	-

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 63)

— D BOARD (Component Side) —



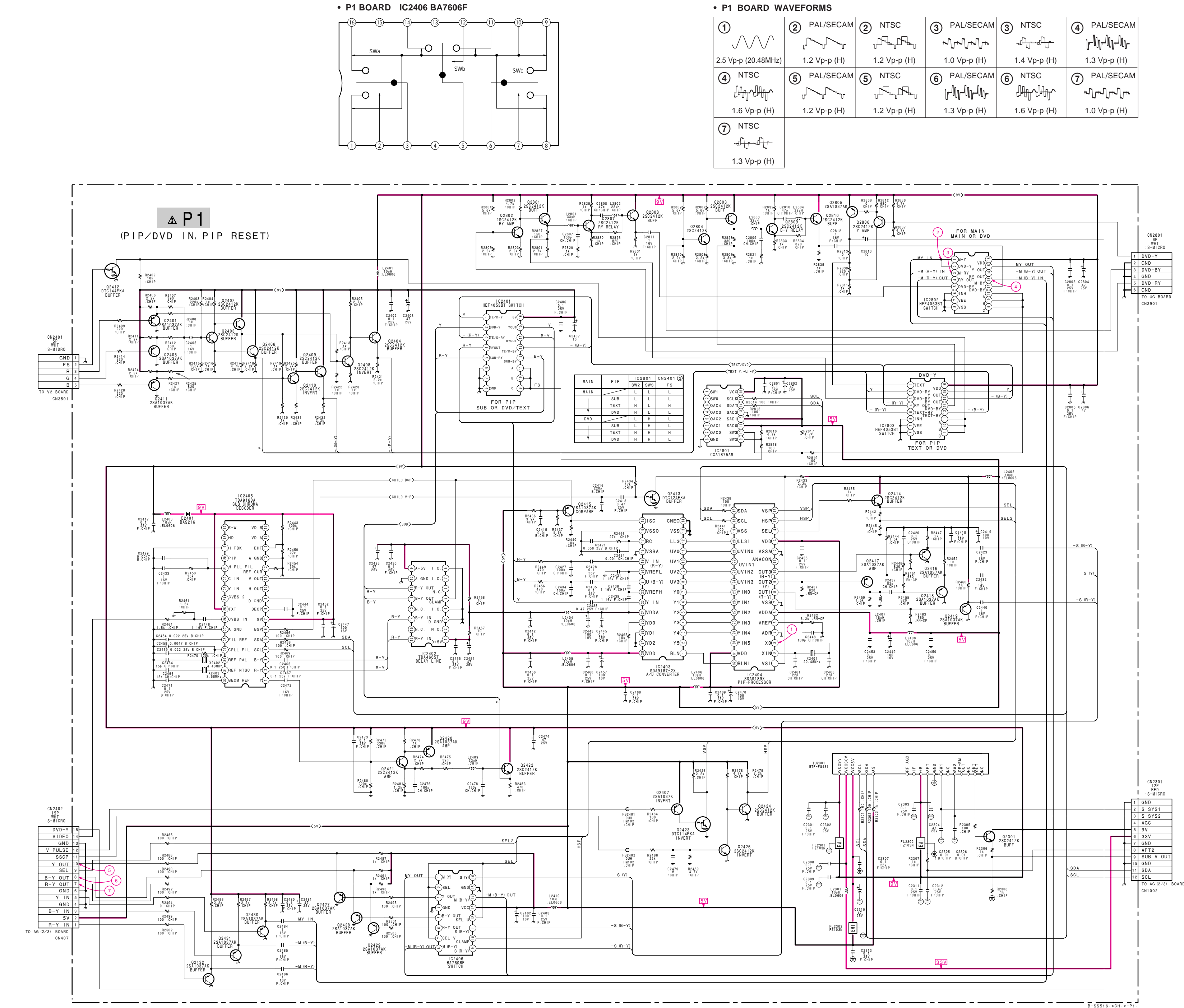
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.



<p>①</p>  <p>57.5 Vp-p (V)</p>	<p>②</p>  <p>0.5 Vp-p (V)</p>	<p>③</p>  <p>0.5 Vp-p (V)</p>	<p>④</p>  <p>4.7 Vp-p (H)</p>	<p>⑤</p>  <p>4.7 Vp-p (V)</p>
<p>⑥</p>  <p>3.6 Vp-p (8 MHz)</p>	<p>⑦</p>  <p>4.7 Vp-p (V)</p>	<p>⑧</p>  <p>4.7 Vp-p (H)</p>	<p>⑨</p>  <p>1.3 Vp-p (V)</p>	<p>⑩</p>  <p>1.3 Vp-p (V)</p>

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC1501	1	1.1	IC1502	30	0	Q1502	B	14.8	Q1702	B	0
	2	14.7		31	0		C	2.0		C	5.2
	3	-13.5		32	0		E	15.0		E	0
	4	-14.6		33	0	Q1503	B	-0.6	Q1703	B	0
	5	0		34	0		C	14.8		C	5.2
	6	14.6		35	0		E	0.2		E	0
	7	1.2		36	3.0	Q1505	B	-0.6	Q1704	B	0
IC1502	2	0		37	2.9		C	14.8		C	5.2
	3	0		38	5.2		E	0.2		E	0
	4	0	Q1601	42	5.1	Q1602	B	-2.9	Q1705	B	0
	5	0		43	5.0		C	0		C	5.2
	6	0		44	5.0		E	2.3		E	0
	9	0	Q1603	45	5.0	Q1604	B	-2.9	Q1706	B	0
	10	0		46	4.8		C	0		C	5.2
IC1503	11	-0.6		47	4.9		E	2.3		E	0
	12	5.2	Q1605	48	4.7	Q1606	B	-2.9	Q1707	B	0
	13	-5.1		49	5.0		C	0		C	5.1
	14	-5.1		50	4.2	Q1607	B	-2.9	Q1708	B	5.1
	15	3.2	Q1608	51	2.7		C	2.9		C	5.2
	16	3.2		52	2.3		E	0		E	5.2
	17	3.1	Q1609	5	5.0	Q1610	B	-2.9	Q1710	B	4.8
IC1602	18	5.2		6	4.9		C	0		C	4.8
	19	0		8	5.2		E	12.8	Q1711	B	4.8
	20	22.8	Q1611	1	8.5	Q1612	B	-0.2		C	4.8
	21	0		2	-14.6		C	0		E	4.7
	22	0		6	0	Q1613	B	-2.9	Q1801	B	0
	23	12.7		7	1.9		C	0		C	0
	24	-22.6		8	15.0		E	12.6	Q1802	B	2.5
IC1603	5	0	Q1614	1	0.7	Q1615	B	12.6		C	5.2
	6	0		2	0		C	0		E	1.9
	7	0		3	0	Q1616	B	-2.9	Q1803	B	5.2
	8	0.6	Q1617	4	-14.6		C	2.9		C	9.4
	9	4.2		6	0		E	0	Q1804	B	5.2
	10	9.2		7	8.9	Q1618	B	-2.9		C	9.4
	11	4.3		8	15.0		C	0.2		E	4.5
IC1701	12	0.6	Q1619	1	5.2	Q1620	B	-2.9	Q1805	B	5.2
	13	0		0	7.2		C	0		C	9.4
	14	2.8		1	12.8	Q1621	B	-2.9		E	4.5
	15	1.3	Q1622	0	9.4		C	0			

- 92 -



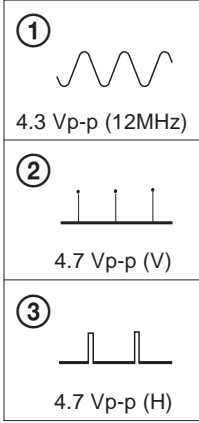
Schematic diagram
← board

Schematic diagrams
P1 V2 board →

• P1 BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
IC2401	1	4.4	IC2402	17	4.8	IC2403	1	4.4	IC2404	1	0.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	2	5.0		18	4.7		2	0.3		3	3.9	19	4.8	3	0.9	4	3.2	20	2.6	4	0.8	5	3.2	21	5.0	5	0	10	0	22	*	6	1.1	12	3.2	23	*	7	0.9	13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1	4.9	IC2801	9	0	IC2802	1	4.4	IC2803	1	4.4	5	0.5	10	5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3	4	4.6	16	8.8	5	4.4	IC2803	1	4.4	IC2406	1	3.3	Q2401	B	0	2	1.5	2	0.3	3	3.9	3	1.8	4	4.0	5	1.5	9	8.8	6	1.5	10	8.8	7	0.3	11	8.8	8	3.0	12	3.9	9	3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403	B	2.7	C	8.8	C	8.8	C	6.8	E	3.0	E	2.1	E	2.1	IC2406	1	3.3	Q2404	B	4.5	Q2405	B	0	2	0.3	C	8.8	E	0.8	3	1.8	C	8.8	E	0	5	1.5	6	1.5	7	0.3	8	3.0	9	3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2	10	5.0	C	8.8	C	0	11	5.0	E	1.5	E	0	12	5.0	Q2408	B	1.7	C	4.5	E	2.3	Q2409	B	4.5	C	8.8	E	3.8	Q2410	B	2.3	C	4.5	E	1.6	Q2411	B	0	C	0.8	E	0	Q2412	B	0	C	8.8	E	0	Q2413	B	3.0	C	0.4	E	0	Q2414	B	0	C	5.0	E	0.3	Q2415	B	2.9	C	0.3	E	0.5	Q2416	B	0.9	C	1.5	E	0	Q2417	B	0	C	0	E	0.8	Q2418	B	0.7	C	1.5	E	0	Q2419	B	0.8	C	1.4	E	0	Q2420	B	8.2	C	5.7	E	8.8	Q2421	B	3.1	C	8.2	E	2.6	Q2422	B	5.8	C	8.8	E	5.0	Q2424	B	0.7	C	0.7	E	0	Q2426	B	0.2	C	0	E	0	Q2801	B	4.8	C	8.8	E	4.1	Q2802	B	2.6	C	4.8	E	2.0	Q2803	B	4.1	C	8.8	E	3.6	Q2804	B	0	C	4.1	E	1.9	Q2805	B	8.1	C	4.4	E	8.8	Q2806	B	4.4	C	8.1	E	3.9	Q2807	B	4.1	C	5.4	E	3.5	Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																									
	18	4.7		2	0.3		3	3.9		19	4.8	3	0.9	4	3.2	20	2.6	4	0.8	5	3.2	21	5.0	5	0	10	0	22	*	6	1.1	12	3.2	23	*	7	0.9	13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1		4.9	IC2801		9	0		IC2802	1		4.4	IC2803	1	4.4	5	0.5	10	5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3	4	4.6	16	8.8		5	4.4		IC2803	1		4.4	IC2406	1	3.3	Q2401	B	0	2	1.5	2	0.3	3	3.9	3	1.8	4	4.0	5	1.5	9	8.8	6	1.5	10	8.8	7	0.3	11	8.8	8	3.0	12	3.9	9	3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12		0.3	16		8.8	13		5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403	B	2.7	C	8.8	C	8.8		C	6.8		E	3.0		E	2.1	E	2.1	IC2406	1	3.3	Q2404	B	4.5	Q2405	B	0	2	0.3	C	8.8	E	0.8	3	1.8	C	8.8	E	0	5	1.5	6	1.5	7	0.3	8	3.0	9	3.0	10		0.7	11		2.9	12		0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2		10	5.0	C	8.8	C	0		11	5.0	E	1.5	E	0		12	5.0	Q2408	B	1.7	C		4.5	E	2.3	Q2409	B	4.5		C	8.8	E	3.8	Q2410	B		2.3	C	4.5	E	1.6	Q2411		B	0	C	0.8	E	0		Q2412	B	0	C	8.8	E		0	Q2413	B	3.0	C	0.4		E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9		C	0.3	E	0.5	Q2416	B		0.9	C	1.5	E	0	Q2417		B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E		0	Q2419	B	0.8	C	1.4		E	0	Q2420	B	8.2	C		5.7	E	8.8	Q2421	B	3.1		C	8.2	E	2.6	Q2422	B		5.8	C	8.8	E	5.0	Q2424		B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E		0	Q2801	B	4.8	C	8.8		E	4.1	Q2802	B	2.6	C		4.8	E	2.0	Q2803	B	4.1		C	8.8	E	3.6	Q2804	B		0	C	4.1	E	1.9	Q2805	B	8.1	C	4.4	E	8.8	Q2806	B	4.4	C	8.1	E	3.9	Q2807	B	4.1	C	5.4	E	3.5	Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																																																																
	2	0.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	3	3.9		19	4.8		3	0.9		4	3.2	20	2.6	4	0.8	5	3.2	21	5.0	5	0	10	0	22	*	6	1.1	12	3.2	23	*	7	0.9	13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1	4.9	IC2801		9		0			IC2802	1			4.4		IC2803		1	4.4	5	0.5	10	5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3	4	4.6	16	8.8		5	4.4			IC2803		1		4.4	IC2406		1	3.3	Q2401	B	0	2	1.5	2	0.3	3	3.9	3	1.8	4	4.0	5	1.5	9	8.8	6	1.5	10	8.8	7	0.3	11	8.8	8	3.0	12	3.9	9	3.0	13	3.1	10	0.7	14	3.2	11	2.9		15	4.4		12	0.3		16		8.8	13		5.0	Q2301		B	3.3	Q2402	B	6.8	Q2403		B	2.7		C	8.8		C	8.8	C	6.8		E	3.0		E	2.1		E	2.1	IC2406	1	3.3	Q2404	B	4.5	Q2405	B	0	2	0.3	C	8.8	E	0.8	3	1.8	C	8.8	E	0	5	1.5		6	1.5		7	0.3		8	3.0	9	3.0	10	0.7	11		2.9	12		0.3	13		5.0	14		2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2	10	5.0	C	8.8		C	0	11	5.0	E	1.5	E		0	12	5.0	Q2408	B	1.7	C		4.5	E	2.3	Q2409	B	4.5	C		8.8	E	3.8	Q2410	B	2.3	C	4.5		E	1.6	Q2411	B	0	C	0.8		E	0	Q2412	B	0	C	8.8		E	0	Q2413	B	3.0	C	0.4		E	0	Q2414	B	0	C	5.0		E	0.3	Q2415	B	2.9	C	0.3		E	0.5	Q2416	B	0.9	C	1.5	E		0	Q2417	B	0	C	0	E		0.8	Q2418	B	0.7	C	1.5	E		0	Q2419	B	0.8	C	1.4	E		0	Q2420	B	8.2	C	5.7	E		8.8	Q2421	B	3.1	C	8.2	E		2.6	Q2422	B	5.8	C	8.8	E	5.0		Q2424	B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E		1.9	Q2805	B	8.1	C	4.4		E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1		C	5.4	E	3.5	Q2808	B		3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																																																			
	19	4.8		3	0.9		4	3.2		20	2.6	4	0.8	5	3.2	21	5.0	5	0	10	0	22	*	6	1.1	12	3.2	23	*	7	0.9	13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1		4.9	IC2801			9		0				IC2802			1				4.4	IC2803	1	4.4	5	0.5	10	5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3	4	4.6		16	8.8					5		4.4			IC2803	1		4.4	IC2406	1	3.3	Q2401	B	0	2	1.5	2	0.3	3	3.9	3	1.8	4	4.0	5	1.5	9	8.8	6	1.5	10	8.8	7	0.3	11	8.8	8	3.0	12	3.9	9	3.0	13	3.1	10		0.7	14		3.2	11		2.9		15	4.4		12			0.3	16		8.8	13			5.0	Q2301		B	3.3		Q2402	B	6.8	Q2403		B	2.7		C	8.8		C	8.8		C	6.8		E	3.0		E	2.1	E	2.1	IC2406	1	3.3	Q2404	B	4.5	Q2405	B	0	2	0.3	C		8.8	E		0.8	3		1.8	C	8.8	E	0	5	1.5		6	1.5		7	0.3		8	3.0		9	3.0	10		0.7	11		2.9	12		0.3	13	5.0	14	2.9	16		3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2	10		5.0	C	8.8	C	0	11	5.0		E	1.5	E	0	12	5.0	Q2408		B	1.7	C	4.5	E	2.3	Q2409		B	4.5	C	8.8	E	3.8	Q2410		B	2.3	C	4.5	E	1.6	Q2411		B	0	C	0.8	E	0	Q2412		B	0	C	8.8	E	0	Q2413		B	3.0	C	0.4	E	0	Q2414		B	0	C	5.0	E	0.3	Q2415		B	2.9	C	0.3	E	0.5	Q2416		B	0.9	C	1.5	E	0	Q2417		B	0	C	0	E	0.8	Q2418		B	0.7	C	1.5	E	0	Q2419		B	0.8	C	1.4	E	0	Q2420		B	8.2	C	5.7	E	8.8	Q2421		B	3.1	C	8.2	E	2.6	Q2422		B	5.8	C	8.8	E	5.0	Q2424		B	0.7	C	0.7	E	0	Q2426		B	0.2	C	0	E	0	Q2801		B	4.8	C	8.8	E	4.1	Q2802		B	2.6	C	4.8	E	2.0	Q2803		B	4.1	C	8.8	E	3.6	Q2804		B	0	C	4.1	E	1.9	Q2805		B	8.1	C	4.4	E	8.8	Q2806		B	4.4	C	8.1	E	3.9	Q2807		B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																																				
	3	0.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	4	3.2		20	2.6		4	0.8		5	3.2	21	5.0	5	0	10	0	22	*	6	1.1	12	3.2	23	*	7	0.9	13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1	4.9	IC2801		9		0				IC2802		1							4.4				IC2803		1	4.4	5	0.5	10	5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3	4	4.6		16	8.8					5		4.4				IC2803		1		4.4	IC2406		1	3.3	Q2401	B	0	2	1.5	2	0.3	3	3.9	3	1.8	4	4.0	5	1.5	9	8.8	6	1.5	10	8.8	7	0.3	11	8.8	8	3.0	12	3.9	9	3.0		13	3.1		10	0.7		14		3.2	11		2.9			15	4.4		12	0.3			16			8.8	13			5.0	Q2301			B	3.3		Q2402	B		6.8	Q2403		B	2.7		C	8.8		C	8.8	C	6.8		E	3.0		E	2.1		E	2.1	IC2406	1	3.3		Q2404	B		4.5	Q2405		B	0	2	0.3	C	8.8	E		0.8	3		1.8	C		8.8	E		0	5	1.5		6	1.5		7	0.3		8	3.0	9	3.0	10	0.7		11		2.9	12		0.3	13		5.0	14	2.9		16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2	10	5.0	C		8.8	C	0	11	5.0	E	1.5		E	0	12	5.0	Q2408	B	1.7		C	4.5	E	2.3	Q2409	B	4.5		C	8.8	E	3.8	Q2410	B	2.3		C	4.5	E	1.6	Q2411	B	0		C	0.8	E	0	Q2412	B	0		C	8.8	E	0	Q2413	B	3.0		C	0.4	E	0	Q2414	B	0		C	5.0	E	0.3	Q2415	B	2.9		C	0.3	E	0.5	Q2416	B	0.9		C	1.5	E	0	Q2417	B	0		C	0	E	0.8	Q2418	B	0.7		C	1.5	E	0	Q2419	B	0.8		C	1.4	E	0	Q2420	B	8.2		C	5.7	E	8.8	Q2421	B	3.1		C	8.2	E	2.6	Q2422	B	5.8		C	8.8	E	5.0	Q2424	B	0.7		C	0.7	E	0	Q2426	B	0.2		C	0	E	0	Q2801	B	4.8		C	8.8	E	4.1	Q2802	B	2.6		C	4.8	E	2.0	Q2803	B	4.1		C	8.8	E	3.6	Q2804	B	0		C	4.1	E	1.9	Q2805	B	8.1		C	4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1		C	5.4	E	3.5	Q2808	B		3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																							
	20	2.6		4	0.8		5	3.2		21	5.0	5	0	10	0	22	*	6	1.1	12	3.2	23	*	7	0.9	13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1		4.9	IC2801			9		0						IC2802							1						4.4	IC2803	1	4.4	5	0.5	10	5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3		4	4.6					16		8.8						5		4.4			IC2803	1		4.4	IC2406	1	3.3	Q2401	B	0	2	1.5	2	0.3	3	3.9	3	1.8	4	4.0	5	1.5	9	8.8	6	1.5	10	8.8	7	0.3	11	8.8	8		3.0	12		3.9	9		3.0		13	3.1		10			0.7	14		3.2	11			2.9			15	4.4			12				0.3	16			8.8		13			5.0	Q2301		B	3.3		Q2402	B	6.8	Q2403		B	2.7		C	8.8		C	8.8		C	6.8			E		3.0			E	2.1	E	2.1	IC2406	1	3.3		Q2404	B		4.5	Q2405		B	0		2	0.3	C		8.8	E		0.8	3		1.8	C	8.8	E	0	5		1.5		6	1.5		7	0.3		8	3.0	9		3.0	10		0.7	11		2.9	12		0.3	13	5.0	14	2.9		16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2	10		5.0	C	8.8	C	0	11	5.0		E	1.5	E	0	12	5.0	Q2408		B	1.7	C	4.5	E	2.3	Q2409		B	4.5	C	8.8	E	3.8	Q2410		B	2.3	C	4.5	E	1.6	Q2411		B	0	C	0.8	E	0	Q2412		B	0	C	8.8	E	0	Q2413		B	3.0	C	0.4	E	0	Q2414		B	0	C	5.0	E	0.3	Q2415		B	2.9	C	0.3	E	0.5	Q2416		B	0.9	C	1.5	E	0	Q2417		B	0	C	0	E	0.8	Q2418		B	0.7	C	1.5	E	0	Q2419		B	0.8	C	1.4	E	0	Q2420		B	8.2	C	5.7	E	8.8	Q2421		B	3.1	C	8.2	E	2.6	Q2422		B	5.8	C	8.8	E	5.0	Q2424		B	0.7	C	0.7	E	0	Q2426		B	0.2	C	0	E	0	Q2801		B	4.8	C	8.8	E	4.1	Q2802		B	2.6	C	4.8	E	2.0	Q2803		B	4.1	C	8.8	E	3.6	Q2804		B	0	C	4.1	E	1.9	Q2805		B	8.1	C	4.4	E	8.8	Q2806		B	4.4	C	8.1	E	3.9	Q2807		B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																								
	4	0.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	5	3.2		21	5.0		5	0		10	0	22	*	6	1.1	12	3.2	23	*	7	0.9	13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1	4.9	IC2801		9		0				IC2802		1													4.4						IC2803		1	4.4	5	0.5	10	5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3		4	4.6					16		8.8						5		4.4				IC2803		1		4.4	IC2406		1	3.3	Q2401	B	0	2	1.5	2	0.3	3	3.9	3	1.8	4	4.0	5	1.5	9	8.8	6	1.5	10	8.8	7	0.3		11	8.8		8	3.0		12		3.9	9		3.0			13	3.1		10	0.7			14			3.2	11			2.9				15	4.4			12		0.3			16			8.8	13			5.0	Q2301			B	3.3		Q2402	B		6.8	Q2403		B	2.7			C		8.8			C	8.8	C	6.8		E	3.0			E		2.1			E	2.1		IC2406	1	3.3		Q2404	B		4.5	Q2405		B	0	2	0.3	C	8.8		E		0.8	3		1.8	C		8.8	E	0		5	1.5		6	1.5		7	0.3		8	3.0	9	3.0	10		0.7	11		2.9	12		0.3	13		5.0	14	2.9		16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2	10	5.0	C		8.8	C	0	11	5.0	E	1.5		E	0	12	5.0	Q2408	B	1.7		C	4.5	E	2.3	Q2409	B	4.5		C	8.8	E	3.8	Q2410	B	2.3		C	4.5	E	1.6	Q2411	B	0		C	0.8	E	0	Q2412	B	0		C	8.8	E	0	Q2413	B	3.0		C	0.4	E	0	Q2414	B	0		C	5.0	E	0.3	Q2415	B	2.9		C	0.3	E	0.5	Q2416	B	0.9		C	1.5	E	0	Q2417	B	0		C	0	E	0.8	Q2418	B	0.7		C	1.5	E	0	Q2419	B	0.8		C	1.4	E	0	Q2420	B	8.2		C	5.7	E	8.8	Q2421	B	3.1		C	8.2	E	2.6	Q2422	B	5.8		C	8.8	E	5.0	Q2424	B	0.7		C	0.7	E	0	Q2426	B	0.2		C	0	E	0	Q2801	B	4.8		C	8.8	E	4.1	Q2802	B	2.6		C	4.8	E	2.0	Q2803	B	4.1		C	8.8	E	3.6	Q2804	B	0		C	4.1	E	1.9	Q2805	B	8.1		C	4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1		C	5.4	E	3.5	Q2808	B		3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																											
	21	5.0		5	0		10	0		22	*	6	1.1	12	3.2	23	*	7	0.9	13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1		4.9	IC2801			9		0						IC2802													1								4.4	IC2803	1	4.4	5	0.5	10	5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2		15	3.3					4		4.6						16		8.8						5		4.4			IC2803	1		4.4	IC2406	1	3.3	Q2401	B	0	2	1.5	2	0.3	3	3.9	3	1.8	4	4.0	5	1.5	9	8.8	6		1.5	10		8.8	7		0.3		11	8.8		8			3.0	12		3.9	9			3.0			13	3.1			10				0.7	14			3.2		11			2.9			15	4.4			12				0.3	16			8.8		13			5.0	Q2301			B		3.3			Q2402	B	6.8	Q2403		B	2.7			C		8.8			C	8.8			C	6.8			E		3.0			E	2.1	E	2.1	IC2406	1		3.3		Q2404	B		4.5	Q2405		B	0	2		0.3	C		8.8	E		0.8	3		1.8	C	8.8	E	0		5	1.5		6	1.5		7	0.3		8	3.0	9		3.0	10		0.7	11		2.9	12		0.3	13	5.0	14	2.9		16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2	10		5.0	C	8.8	C	0	11	5.0		E	1.5	E	0	12	5.0	Q2408		B	1.7	C	4.5	E	2.3	Q2409		B	4.5	C	8.8	E	3.8	Q2410		B	2.3	C	4.5	E	1.6	Q2411		B	0	C	0.8	E	0	Q2412		B	0	C	8.8	E	0	Q2413		B	3.0	C	0.4	E	0	Q2414		B	0	C	5.0	E	0.3	Q2415		B	2.9	C	0.3	E	0.5	Q2416		B	0.9	C	1.5	E	0	Q2417		B	0	C	0	E	0.8	Q2418		B	0.7	C	1.5	E	0	Q2419		B	0.8	C	1.4	E	0	Q2420		B	8.2	C	5.7	E	8.8	Q2421		B	3.1	C	8.2	E	2.6	Q2422		B	5.8	C	8.8	E	5.0	Q2424		B	0.7	C	0.7	E	0	Q2426		B	0.2	C	0	E	0	Q2801		B	4.8	C	8.8	E	4.1	Q2802		B	2.6	C	4.8	E	2.0	Q2803		B	4.1	C	8.8	E	3.6	Q2804		B	0	C	4.1	E	1.9	Q2805		B	8.1	C	4.4	E	8.8	Q2806		B	4.4	C	8.1	E	3.9	Q2807		B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																												
	5	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	10	0		22	*		6	1.1		12	3.2	23	*	7	0.9	13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1	4.9	IC2801		9		0				IC2802		1																			4.4								IC2803		1	4.4	5	0.5	10	5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2		15	3.3					4		4.6						16		8.8						5		4.4				IC2803		1		4.4	IC2406		1	3.3	Q2401	B	0	2	1.5	2	0.3	3	3.9	3	1.8	4	4.0	5	1.5		9	8.8		6	1.5		10		8.8	7		0.3			11	8.8		8	3.0			12			3.9	9			3.0				13	3.1			10		0.7			14			3.2	11			2.9				15	4.4			12		0.3			16				8.8		13				5.0	Q2301			B	3.3			Q2402		B			6.8	Q2403			B	2.7			C		8.8			C	8.8	C	6.8		E		3.0			E		2.1			E	2.1	IC2406		1	3.3		Q2404	B		4.5	Q2405		B	0	2	0.3	C		8.8	E		0.8	3		1.8	C		8.8	E	0		5	1.5		6	1.5		7	0.3		8	3.0	9	3.0	10		0.7	11		2.9	12		0.3	13		5.0	14	2.9		16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2	10	5.0	C		8.8	C	0	11	5.0	E	1.5		E	0	12	5.0	Q2408	B	1.7		C	4.5	E	2.3	Q2409	B	4.5		C	8.8	E	3.8	Q2410	B	2.3		C	4.5	E	1.6	Q2411	B	0		C	0.8	E	0	Q2412	B	0		C	8.8	E	0	Q2413	B	3.0		C	0.4	E	0	Q2414	B	0		C	5.0	E	0.3	Q2415	B	2.9		C	0.3	E	0.5	Q2416	B	0.9		C	1.5	E	0	Q2417	B	0		C	0	E	0.8	Q2418	B	0.7		C	1.5	E	0	Q2419	B	0.8		C	1.4	E	0	Q2420	B	8.2		C	5.7	E	8.8	Q2421	B	3.1		C	8.2	E	2.6	Q2422	B	5.8		C	8.8	E	5.0	Q2424	B	0.7		C	0.7	E	0	Q2426	B	0.2		C	0	E	0	Q2801	B	4.8		C	8.8	E	4.1	Q2802	B	2.6		C	4.8	E	2.0	Q2803	B	4.1		C	8.8	E	3.6	Q2804	B	0		C	4.1	E	1.9	Q2805	B	8.1		C	4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1		C	5.4	E	3.5	Q2808	B		3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2															
	22	*		6	1.1		12	3.2		23	*	7	0.9	13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1		4.9	IC2801			9		0						IC2802																			1										4.4	IC2803	1	4.4	5	0.5	10	5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9		3	2.2					15		3.3						4		4.6						16		8.8						5		4.4			IC2803	1		4.4	IC2406	1	3.3	Q2401	B	0	2	1.5	2	0.3	3	3.9	3		1.8	4		4.0	5		1.5		9	8.8		6			1.5	10		8.8	7			0.3			11	8.8			8				3.0	12			3.9		9			3.0			13	3.1			10				0.7	14			3.2		11			2.9				15		4.4				12				0.3	16					8.8			13				5.0	Q2301			B		3.3			Q2402	B	6.8	Q2403		B		2.7			C		8.8			C	8.8			C	6.8			E		3.0			E	2.1	E	2.1	IC2406		1	3.3		Q2404	B		4.5	Q2405		B	0	2		0.3	C		8.8	E		0.8	3		1.8	C	8.8	E	0		5	1.5		6	1.5		7	0.3		8	3.0	9		3.0	10		0.7	11		2.9	12		0.3	13	5.0	14	2.9		16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2	10		5.0	C	8.8	C	0	11	5.0		E	1.5	E	0	12	5.0	Q2408		B	1.7	C	4.5	E	2.3	Q2409		B	4.5	C	8.8	E	3.8	Q2410		B	2.3	C	4.5	E	1.6	Q2411		B	0	C	0.8	E	0	Q2412		B	0	C	8.8	E	0	Q2413		B	3.0	C	0.4	E	0	Q2414		B	0	C	5.0	E	0.3	Q2415		B	2.9	C	0.3	E	0.5	Q2416		B	0.9	C	1.5	E	0	Q2417		B	0	C	0	E	0.8	Q2418		B	0.7	C	1.5	E	0	Q2419		B	0.8	C	1.4	E	0	Q2420		B	8.2	C	5.7	E	8.8	Q2421		B	3.1	C	8.2	E	2.6	Q2422		B	5.8	C	8.8	E	5.0	Q2424		B	0.7	C	0.7	E	0	Q2426		B	0.2	C	0	E	0	Q2801		B	4.8	C	8.8	E	4.1	Q2802		B	2.6	C	4.8	E	2.0	Q2803		B	4.1	C	8.8	E	3.6	Q2804		B	0	C	4.1	E	1.9	Q2805		B	8.1	C	4.4	E	8.8	Q2806		B	4.4	C	8.1	E	3.9	Q2807		B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2
	6	1.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
12	3.2	23	*	7	0.9	13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1	4.9	IC2801	9	0	IC2802	1		4.4		IC2803				1		4.4																									5										0.5		10	5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3		4	4.6					16		8.8						5		4.4						IC2803		1						4.4		IC2406				1		3.3		Q2401	B		0	2	1.5	2	0.3	3	3.9	3	1.8		4	4.0		5	1.5		9		8.8	6		1.5			10	8.8		7	0.3			11			8.8	8			3.0				12	3.9			9		3.0			13			3.1	10			0.7				14	3.2			11		2.9			15				4.4		12				0.3				16	8.8					13			5.0				Q2301				B		3.3				Q2402	B			6.8		Q2403			B		2.7			C	8.8			C	8.8			C		6.8			E	3.0	E	2.1			E	2.1			IC2406		1			3.3	Q2404	B		4.5	Q2405		B	0		2	0.3		C	8.8	E	0.8	3		1.8	C		8.8	E		0	5		1.5	6	1.5		7	0.3		8	3.0		9	3.0		10	0.7	11	2.9	12		0.3	13		5.0	14		2.9	16		3.0	IC2801	9		0	Q2406	B	2.1	Q2426	B	0.2	10	5.0	C	8.8	C	0	11		5.0	E	1.5	E	0	12	5.0		Q2408	B	1.7	C	4.5	E	2.3		Q2409	B	4.5	C	8.8	E	3.8		Q2410	B	2.3	C	4.5	E	1.6		Q2411	B	0	C	0.8	E	0		Q2412	B	0	C	8.8	E	0		Q2413	B	3.0	C	0.4	E	0		Q2414	B	0	C	5.0	E	0.3		Q2415	B	2.9	C	0.3	E	0.5		Q2416	B	0.9	C	1.5	E	0		Q2417	B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E	0		Q2419	B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E	8.8		Q2421	B	3.1	C	8.2	E	2.6		Q2422	B	5.8	C	8.8	E	5.0		Q2424	B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E	1.9		Q2805	B	8.1	C	4.4	E	8.8		Q2806	B	4.4	C	8.1	E	3.9	Q2807		B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E		2.8	Q2809	B	3.6	C	6.1
23	*	7	0.9	13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1		4.9	IC2801		9	0		IC2802		1						4.4		IC2803																	1			4.4			5		0.5	10									5.0		2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3	4	4.6	16	8.8	5	4.4			IC2803	1		4.4						IC2406		1								3.3						Q2401						B		0			2		1.5	2	0.3	3	3.9	3	1.8	4	4.0	5	1.5	9	8.8	6	1.5	10	8.8		7	0.3		11			8.8	8		3.0	12		3.9	9		3.0	13	3.1	10		0.7				14	3.2			11		2.9			15			4.4	12			0.3				16	8.8			13		5.0			Q2301		B		3.3	Q2402	B		6.8		Q2403				B	2.7					C			8.8		C						8.8		C					6.8			E					3.0		E			2.1	E			2.1	IC2406			1		3.3			Q2404	B	4.5	Q2405			B	0					2			0.3		C		8.8			E	0.8		3	1.8		C	8.8	E	0	5		1.5	6		1.5	7		0.3	8		3.0	9	3.0		10	0.7		11	2.9		12	0.3		13	5.0	14	2.9	16		3.0	IC2801		9	0		Q2406	B		2.1		Q2426		B		0.2	10		5.0	C	8.8	C	0	11	5.0	E	1.5		E	0	12	5.0	Q2408	B	1.7	C		4.5	E	2.3	Q2409	B	4.5	C		8.8	E	3.8	Q2410	B	2.3	C		4.5	E	1.6	Q2411	B	0	C		0.8	E	0	Q2412	B	0	C		8.8	E	0	Q2413	B	3.0	C		0.4	E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C		0	E	0.8	Q2418	B	0.7	C		1.5	E	0	Q2419	B	0.8	C		1.4	E	0	Q2420	B	8.2	C		5.7	E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8	C		8.8	E	5.0	Q2424	B	0.7	C		0.7	E	0	Q2426	B	0.2	C		0	E	0	Q2801	B	4.8	C		8.8	E	4.1	Q2802	B	2.6	C		4.8	E	2.0	Q2803	B	4.1	C		8.8	E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1		C	5.4	E	3.5	Q2808	B	3.5	C		8.8	E	2.8	Q2809	B	3.6	C		6.1	E	2.8	Q2810
7	0.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
13	3.2	24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1	4.9	IC2801		9		0			IC2802	1				4.4						IC2803																	1		4.4		5	0.5			10	5.0	2	2.4		9							4.9		11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3	4	4.6	16	8.8	5	4.4	IC2803	1	4.4	IC2406	1			3.3	Q2401	B		0						2								1.5												2		0.3			3		3.9	3	1.8	4	4.0	5	1.5	9	8.8	6	1.5	10	8.8	7	0.3	11	8.8	8	3.0	12	3.9	9		3.0	13	3.1		10	0.7		14	3.2		11	2.9	15	4.4		12			0.3	16	8.8	13		5.0	Q2301	B			3.3			Q2402	B			6.8				Q2403	B			2.7		C					8.8		C		8.8		C						6.8	E	3.0			E	2.1		E	2.1		IC2406						1		3.3					Q2404			B	4.5				Q2405		B			0	2			0.3				C		8.8				E	0.8				3	1.8					C			8.8		E		0			5	1.5		6	1.5		7	0.3	8	3.0	9		3.0	10		0.7	11		2.9	12		0.3	13	5.0		14	2.9		16	3.0		IC2801	9		0	Q2406	B	2.1	Q2426		B			0.2	10			5.0		C				8.8		C	0		11	5.0	E	1.5	E	0	12	5.0	Q2408		B	1.7	C	4.5		E	2.3	Q2409		B	4.5	C		8.8	E	3.8	Q2410	B	2.3	C		4.5	E	1.6	Q2411	B	0	C		0.8	E	0	Q2412	B	0	C		8.8	E	0	Q2413	B	3.0	C		0.4	E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C		0	E	0.8	Q2418	B	0.7	C		1.5	E	0	Q2419	B	0.8	C		1.4	E	0	Q2420	B	8.2	C		5.7	E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8	C		8.8	E	5.0	Q2424	B	0.7	C		0.7	E	0	Q2426	B	0.2	C		0	E	0	Q2801	B	4.8	C		8.8	E	4.1	Q2802	B	2.6	C		4.8	E	2.0	Q2803	B	4.1	C		8.8	E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1	C		5.4	E	3.5	Q2808	B	3.5	C		8.8	E	2.8	Q2809	B	3.6	C		6.1	E	2.8	Q2810	B	2.8	C	
24	*	8	5.2	14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1		4.9	IC2801			9		0				IC2802				1																			4.4			IC2803	1		4.4		5	0.5	10		5.0	2	2.4	9	4.9	11							5.0		3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3	4	4.6	16	8.8	5	4.4	IC2803	1		4.4	IC2406		1	3.3		Q2401		B	0	2			1.5			2								0.3												3		3.9			3		1.8	4	4.0	5	1.5	9	8.8	6	1.5	10	8.8	7	0.3	11	8.8	8	3.0	12	3.9	9	3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12		0.3	16	8.8	13		5.0			Q2301	B	3.3	Q2402		B		6.8		Q2403	B		2.7		C	8.8		C					8.8			C		6.8					E		3.0		E		2.1						E	2.1	IC2406			1	3.3		Q2404	B						4.5		Q2405	B	0		2						0.3	C						8.8			E	0.8		3	1.8				C		8.8				E	0				5	1.5					6			1.5		7		0.3			8	3.0		9	3.0		10	0.7	11	2.9	12		0.3	13		5.0	14		2.9	16		3.0	IC2801	9		0	Q2406		B	2.1			Q2426		B		0.2	10			5.0			C	8.8			C		0				11		5.0	E		1.5	E	0	12	5.0	Q2408	B	1.7			C	4.5	E	2.3		Q2409	B			4.5	C	8.8	E	3.8	Q2410	B		2.3	C	4.5	E	1.6	Q2411	B		0	C	0.8	E	0	Q2412	B		0	C	8.8	E	0	Q2413	B		3.0	C	0.4	E	0	Q2414	B		0	C	5.0	E	0.3	Q2415	B		2.9	C	0.3	E	0.5	Q2416	B		0.9	C	1.5	E	0	Q2417	B		0	C	0	E	0.8	Q2418	B		0.7	C	1.5	E	0	Q2419	B		0.8	C	1.4	E	0	Q2420	B		8.2	C	5.7	E	8.8	Q2421	B		3.1	C	8.2	E	2.6	Q2422	B		5.8	C	8.8	E	5.0	Q2424	B		0.7	C	0.7	E	0	Q2426	B		0.2	C	0	E	0	Q2801	B		4.8	C	8.8	E	4.1	Q2802	B		2.6	C	4.8	E	2.0	Q2803	B		4.1	C	8.8	E	3.6	Q2804	B		0	C	4.1	E	1.9	Q2805	B		8.1	C	4.4	E	8.8	Q2806	B		4.4	C	8.1	E	3.9	Q2807	B		4.1	C	5.4	E	3.5	Q2808	B		3.5	C	8.8	E	2.8	Q2809	B		3.6	C	6.1	E	2.8	Q2810	B		2.8	C	8.8	E
8	5.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
14	3.1	25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1	4.9	IC2801		9		0				IC2802		1								4.4																	IC2803		1		4.4		5		0.5		10	5.0	2	2.4	9	4.9	11	5.0	3	2.2		32					4.1		12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3	4	4.6	16	8.8	5	4.4	IC2803	1	4.4	IC2406		1		3.3			Q2401	B				0	2	1.5	2		0.3		3	3.9		3						1.8												4		4.0			5		1.5	9	8.8	6	1.5	10	8.8	7	0.3	11	8.8	8	3.0	12	3.9	9	3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8		Q2403		B	2.7			C		8.8			C		8.8		C	6.8		E			3.0		E	2.1		E	2.1	IC2406					1		3.3		Q2404		B						4.5	Q2405				B	0			2						0.3			C	8.8		E						0.8	3		1.8			C	8.8		E	0	5		1.5	6				1.5		7				0.3	8			3.0	9	3.0					10			0.7		11		2.9			12	0.3		13	5.0		14	2.9	16	3.0	IC2801		9	0		Q2406	B		2.1	Q2426		B		0.2		10			5.0	C					8.8		C	0			11			5.0	E			1.5		E				0		12	5.0		Q2408	B	1.7	C	4.5		E	2.3			Q2409	B	4.5	C			8.8	E		3.8	Q2410	B	2.3	C		4.5	E	1.6	Q2411	B	0	C		0.8	E	0	Q2412	B	0	C		8.8	E	0	Q2413	B	3.0	C		0.4	E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C		0	E	0.8	Q2418	B	0.7	C		1.5	E	0	Q2419	B	0.8	C		1.4	E	0	Q2420	B	8.2	C		5.7	E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8	C		8.8	E	5.0	Q2424	B	0.7	C		0.7	E	0	Q2426	B	0.2	C		0	E	0	Q2801	B	4.8	C		8.8	E	4.1	Q2802	B	2.6	C		4.8	E	2.0	Q2803	B	4.1	C		8.8	E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1	C		5.4	E	3.5	Q2808	B	3.5	C		8.8	E	2.8	Q2809	B	3.6	C		6.1	E	2.8	Q2810	B	2.8	C		8.8	E	2.2			
25	*	9	8.8	15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1		4.9	IC2801			9		0						IC2802								1													4.4			IC2803			1		4.4		5	0.5	10		5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12					2.1		1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3	4	4.6	16	8.8	5	4.4	IC2803	1		4.4	IC2406			1		3.3				Q2401				B	0	2	1.5	2	0.3		3	3.9	3	1.8			4			4.0												5		1.5			9		8.8	6	1.5	10	8.8	7	0.3	11	8.8	8	3.0	12	3.9	9	3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B		3.3	Q2402		B	6.8	Q2403			B	2.7		C	8.8		C	8.8		C		6.8		E	3.0		E			2.1		E	2.1		IC2406	1			3.3			Q2404	B	4.5			Q2405	B						0					2	0.3			C						8.8			E	0.8		3						1.8	C		8.8			E	0		5	1.5	6		1.5	7		0.3		8	3.0	9		3.0		10	0.7			11	2.9	12					0.3			13		5.0	14	2.9			16	3.0		IC2801	9		0	Q2406	B	2.1			Q2426	B			0.2		10			5.0		C		8.8			C	0					11		5.0	E			1.5			E	0			12		5.0				Q2408		B	1.7			C	4.5	E	2.3		Q2409	B				4.5	C	8.8		E	3.8	Q2410		B		2.3	C	4.5	E	1.6	Q2411	B		0	C	0.8	E	0	Q2412	B		0	C	8.8	E	0	Q2413	B		3.0	C	0.4	E	0	Q2414	B		0	C	5.0	E	0.3	Q2415	B		2.9	C	0.3	E	0.5	Q2416	B		0.9	C	1.5	E	0	Q2417	B		0	C	0	E	0.8	Q2418	B		0.7	C	1.5	E	0	Q2419	B		0.8	C	1.4	E	0	Q2420	B		8.2	C	5.7	E	8.8	Q2421	B		3.1	C	8.2	E	2.6	Q2422	B		5.8	C	8.8	E	5.0	Q2424	B		0.7	C	0.7	E	0	Q2426	B		0.2	C	0	E	0	Q2801	B		4.8	C	8.8	E	4.1	Q2802	B		2.6	C	4.8	E	2.0	Q2803	B		4.1	C	8.8	E	3.6	Q2804	B		0	C	4.1	E	1.9	Q2805	B		8.1	C	4.4	E	8.8	Q2806	B		4.4	C	8.1	E	3.9	Q2807	B		4.1	C	5.4	E	3.5	Q2808	B		3.5	C	8.8	E	2.8	Q2809	B		3.6	C	6.1	E	2.8	Q2810	B		2.8	C	8.8	E	2.2					
9	8.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
15	4.9	26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1	4.9	IC2801		9		0				IC2802		1														4.4											IC2803		1		4.4				5		0.5		10	5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4		13			3.0		2	2.4	14	2.9	3	2.2	15	3.3	4	4.6	16	8.8	5	4.4	IC2803	1	4.4	IC2406		1		3.3				Q2401		B								0	2	1.5	2	0.3	3		3.9	3	1.8	4	4.0		5		1.5	9		8.8										6		1.5			10		8.8	7	0.3	11	8.8	8	3.0	12	3.9	9	3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402		B		6.8			Q2403	B				2.7	C		8.8	C		8.8	C		6.8	E	3.0		E	2.1	E	2.1		IC2406	1		3.3	Q2404			B			4.5				Q2405	B				0					2	0.3			C		8.8	E	0.8		3						1.8			C	8.8		E						0	5		1.5			6	1.5		7	0.3	8		3.0	9		3.0		10	0.7	11		2.9		12	0.3			13	5.0	14	2.9			16	3.0		IC2801	9		0	Q2406	B			2.1	Q2426			B		0.2		10	5.0		C		8.8			C		0			11		5.0		E			1.5	E					0		12	5.0			Q2408			B	1.7			C		4.5						E	2.3			Q2409	B	4.5	C			8.8			E	3.8	Q2410	B		2.3	C			4.5	E	1.6	Q2411	B	0	C		0.8	E	0	Q2412	B	0	C		8.8	E	0	Q2413	B	3.0	C		0.4	E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C		0	E	0.8	Q2418	B	0.7	C		1.5	E	0	Q2419	B	0.8	C		1.4	E	0	Q2420	B	8.2	C		5.7	E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8	C		8.8	E	5.0	Q2424	B	0.7	C		0.7	E	0	Q2426	B	0.2	C		0	E	0	Q2801	B	4.8	C		8.8	E	4.1	Q2802	B	2.6	C		4.8	E	2.0	Q2803	B	4.1	C		8.8	E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1	C		5.4	E	3.5	Q2808	B	3.5	C		8.8	E	2.8	Q2809	B	3.6	C		6.1	E	2.8	Q2810	B	2.8	C		8.8	E	2.2									
26	1.1	10	8.8	16	8.8	27	*	11	5.0	IC2405	1		4.9	IC2801			9		0						IC2802														1							4.4			IC2803			1		4.4			5	0.5		10		5.0	2	2.4	9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2			2.4		14	2.9	3	2.2	15	3.3	4	4.6	16	8.8	5	4.4	IC2803	1		4.4	IC2406			1		3.3						Q2401								B	0	2	1.5	2	0.3		3	3.9	3	1.8	4	4.0	5		1.5	9	8.8	6			1.5							10		8.8			7		0.3	11	8.8	8	3.0	12	3.9	9	3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B		3.3	Q2402			B		6.8				Q2403				B	2.7		C	8.8		C	8.8		C	6.8	E		3.0	E	2.1	E	2.1		IC2406		1		3.3		Q2404		B	4.5					Q2405				B					0	2			0.3		C	8.8	E		0.8			3			1.8	C		8.8	E	0	5						1.5	6		1.5			7	0.3		8	3.0	9		3.0	10		0.7		11	2.9	12		0.3		13	5.0			14	2.9	16	3.0			IC2801	9			0		Q2406		B		2.1	Q2426		B		0.2	10	5.0		C	8.8		C		0			11		5.0			E		1.5	E	0			12	5.0					Q2408		B	1.7						C	4.5			E		2.3						Q2409	B				4.5	C	8.8		E	3.8			Q2410	B		2.3		C	4.5	E		1.6	Q2411	B		0	C	0.8	E	0	Q2412	B		0	C	8.8	E	0	Q2413	B		3.0	C	0.4	E	0	Q2414	B		0	C	5.0	E	0.3	Q2415	B		2.9	C	0.3	E	0.5	Q2416	B		0.9	C	1.5	E	0	Q2417	B		0	C	0	E	0.8	Q2418	B		0.7	C	1.5	E	0	Q2419	B		0.8	C	1.4	E	0	Q2420	B		8.2	C	5.7	E	8.8	Q2421	B		3.1	C	8.2	E	2.6	Q2422	B		5.8	C	8.8	E	5.0	Q2424	B		0.7	C	0.7	E	0	Q2426	B		0.2	C	0	E	0	Q2801	B		4.8	C	8.8	E	4.1	Q2802	B		2.6	C	4.8	E	2.0	Q2803	B		4.1	C	8.8	E	3.6	Q2804	B		0	C	4.1	E	1.9	Q2805	B		8.1	C	4.4	E	8.8	Q2806	B		4.4	C	8.1	E	3.9	Q2807	B		4.1	C	5.4	E	3.5	Q2808	B		3.5	C	8.8	E	2.8	Q2809	B		3.6	C	6.1	E	2.8	Q2810	B		2.8	C	8.8	E	2.2											
10	8.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
16	8.8	27	*	11	5.0	IC2405	1	4.9	IC2801		9		0				IC2802		1																				4.4					IC2803		1		4.4				5		0.5			10	5.0	2	2.4		9	4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9		3	2.2		15	3.3	4	4.6	16	8.8	5	4.4	IC2803	1	4.4	IC2406		1		3.3				Q2401		B														0	2	1.5	2	0.3	3		3.9	3	1.8	4	4.0	5	1.5		9	8.8	6	1.5	10		8.8		7			0.3		11		8.8			8		3.0	12	3.9	9	3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402		B		6.8				Q2403		B								2.7	C		8.8	C		8.8	C		6.8	E	3.0		E	2.1	E	2.1	IC2406				1		3.3				Q2404	B		4.5							Q2405	B			0	2	0.3			C		8.8	E	0.8		3			1.8			C	8.8		E	0	5	1.5					6	1.5	7		0.3	8		3.0	9	3.0	10	0.7	11		2.9	12		0.3		13	5.0	14		2.9		16	3.0			IC2801	9	0	Q2406				B			2.1				Q2426		B			0.2		10	5.0	C		8.8	C		0		11	5.0		E	1.5	E		0	12		5.0	Q2408	B			1.7	C							4.5	E		2.3				Q2409	B			4.5		C							8.8			E	3.8	Q2410	B		2.3	C				4.5	E	1.6		Q2411	B	0		C		0.8	E	0	Q2412	B	0	C		8.8	E	0	Q2413	B	3.0	C		0.4	E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C		0	E	0.8	Q2418	B	0.7	C		1.5	E	0	Q2419	B	0.8	C		1.4	E	0	Q2420	B	8.2	C		5.7	E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8	C		8.8	E	5.0	Q2424	B	0.7	C		0.7	E	0	Q2426	B	0.2	C		0	E	0	Q2801	B	4.8	C		8.8	E	4.1	Q2802	B	2.6	C		4.8	E	2.0	Q2803	B	4.1	C		8.8	E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1	C		5.4	E	3.5	Q2808	B	3.5	C		8.8	E	2.8	Q2809	B	3.6	C		6.1	E	2.8	Q2810	B	2.8	C		8.8	E	2.2															
27	*	11	5.0	IC2405	1		4.9	IC2801			9		0						IC2802																				1	4.4			IC2803			1		4.4			5	0.5		10			5.0	2	2.4	9		4.9	11	5.0	3	2.2	32	4.1	12	2.1	1	2.4	13	3.0	2	2.4	14	2.9	3	2.2	15	3.3		4	4.6	16	8.8	5	4.4	IC2803	1		4.4	IC2406			1		3.3						Q2401														B	0	2	1.5	2	0.3		3	3.9	3	1.8	4	4.0	5		1.5	9	8.8	6	1.5	10	8.8		7		0.3	11		8.8	8	3.0			12		3.9	9	3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B		3.3	Q2402			B		6.8						Q2403								B	2.7		C	8.8		C	8.8		C	6.8	E		3.0	E	2.1	E					2.1		IC2406					1		3.3								Q2404		B	4.5	Q2405	B			0	2	0.3	C	8.8		E	0.8		3			1.8	C		8.8	E	0	5					1.5	6	1.5		7	0.3		8	3.0	9	3.0	10	0.7	11	2.9	12		0.3	13	5.0	14	2.9	16	3.0		IC2801	9				0	Q2406					B			2.1						Q2426			B		0.2	10	5.0		C	8.8		C		0	11		5.0	E	1.5		E	0		12		5.0		Q2408	B	1.7	C			4.5			E	2.3		Q2409					B			4.5		C			8.8			E	3.8			Q2410	B		2.3		C	4.5			E	1.6	Q2411	B			0	C		0.8	E	0	Q2412	B		0	C	8.8	E	0	Q2413	B		3.0	C	0.4	E	0	Q2414	B		0	C	5.0	E	0.3	Q2415	B		2.9	C	0.3	E	0.5	Q2416	B		0.9	C	1.5	E	0	Q2417	B		0	C	0	E	0.8	Q2418	B		0.7	C	1.5	E	0	Q2419	B		0.8	C	1.4	E	0	Q2420	B		8.2	C	5.7	E	8.8	Q2421	B		3.1	C	8.2	E	2.6	Q2422	B		5.8	C	8.8	E	5.0	Q2424	B		0.7	C	0.7	E	0	Q2426	B		0.2	C	0	E	0	Q2801	B		4.8	C	8.8	E	4.1	Q2802	B		2.6	C	4.8	E	2.0	Q2803	B		4.1	C	8.8	E	3.6	Q2804	B		0	C	4.1	E	1.9	Q2805	B		8.1	C	4.4	E	8.8	Q2806	B		4.4	C	8.1	E	3.9	Q2807	B		4.1	C	5.4	E	3.5	Q2808	B		3.5	C	8.8	E	2.8	Q2809	B		3.6	C	6.1	E	2.8	Q2810	B		2.8	C	8.8	E	2.2																	
11	5.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
IC2405	1	4.9	IC2801		9		0				IC2802		1																									4.4	IC2803	1		4.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	5	0.5			10		5.0						2																	2.4			9			4.9		11		5.0	3	2.2				32		4.1			12	2.1	1	2.4			13	3.0	2	2.4		14	2.9	3	2.2	15	3.3	4	4.6	16	8.8	5	4.4	IC2803	1	4.4	IC2406	1	3.3	Q2401	B	0	2	1.5	2	0.3	3	3.9	3		1.8		4				4.0		5																				1.5	9	8.8	6	1.5	10		8.8	7	0.3	11	8.8	8	3.0	12	3.9	9	3.0	13	3.1	10	0.7		14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403	B	2.7	C	8.8	C	8.8	C	6.8	E	3.0	E	2.1		E		2.1				IC2406		1														3.3	Q2404		B	4.5		Q2405	B		0	2	0.3		C	8.8	E	0.8					3							1.8		C										8.8	E		0			5	1.5	6	1.5	7		0.3	8		3.0	9	3.0	10	0.7		11	2.9	12	0.3	13	5.0		14	2.9	16	3.0	IC2801	9	0		Q2406	B	2.1	Q2426	B	0.2	10	5.0	C		8.8	C	0	11	5.0	E	1.5			E		0		12			5.0	Q2408		B	1.7		C	4.5				E				2.3		Q2409	B	4.5		C	8.8		E		3.8	Q2410		B	2.3	C		4.5	E		1.6		Q2411			B	0	C			0.8			E	0		Q2412			B	0	C	8.8		E	0	Q2413	B		3.0		C	0.4	E	0		Q2414	B	0	C		5.0	E		0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C	1.5	E	0	Q2417	B	0	C	0	E	0.8	Q2418	B	0.7	C	1.5	E	0	Q2419	B	0.8	C	1.4	E	0	Q2420	B	8.2	C	5.7	E	8.8	Q2421	B	3.1	C	8.2	E	2.6	Q2422	B	5.8	C	8.8	E	5.0	Q2424	B	0.7	C	0.7	E	0	Q2426	B	0.2	C	0	E	0	Q2801	B	4.8	C	8.8	E	4.1	Q2802	B	2.6	C	4.8	E	2.0	Q2803	B	4.1	C	8.8	E	3.6	Q2804	B	0	C	4.1	E	1.9	Q2805	B	8.1	C	4.4	E	8.8	Q2806	B	4.4	C	8.1	E	3.9	Q2807	B	4.1	C	5.4	E	3.5	Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																								
	10	5.0			2		2.4						9															4.9		11		5.0	3			2.2	32	4.1		12	2.1	1				2.4	13	3.0			2	2.4	14	2.9			3	2.2	15	3.3		4	4.6	16	8.8	5	4.4	IC2803	1	4.4	IC2406	1	3.3		Q2401	B		0	2		1.5	2	0.3	3	3.9	3	1.8	4	4.0		5		1.5				9		8.8																	6			1.5	10	8.8	7	0.3	11	8.8	8	3.0	12	3.9	9	3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8		Q2403	B		2.7	C		8.8	C	8.8	C	6.8	E	3.0	E	2.1	E	2.1	IC2406		1		3.3						Q2404														B			4.5	Q2405			B		0	2	0.3		C	8.8	E	0.8					3							1.8	C	8.8				E					0	5	1.5		6			1.5	7	0.3	8	3.0		9	3.0		10	0.7	11	2.9	12		0.3	13	5.0	14	2.9	16		3.0	IC2801	9	0		Q2406	B			2.1	Q2426		B	0.2	10	5.0	C	8.8	C	0	11	5.0	E	1.5	E	0		12	5.0	Q2408		B			1.7			C	4.5		E	2.3				Q2409				B			4.5	C		8.8	E		3.8		Q2410			B	2.3	C		4.5	E		1.6					Q2411	B	0			C			0.8	E				0	Q2412	B	0	C	8.8	E	0		Q2413	B	3.0		C	0.4	E	0			Q2414	B	0		C	5.0		E		0.3	Q2415	B	2.9	C	0.3	E		0.5	Q2416	B	0.9	C	1.5		E	0	Q2417	B	0	C		0	E	0.8	Q2418	B	0.7		C	1.5	E	0	Q2419	B		0.8	C	1.4	E	0	Q2420		B	8.2	C	5.7	E	8.8		Q2421	B	3.1	C	8.2	E		2.6	Q2422	B	5.8	C	8.8		E	5.0	Q2424	B	0.7	C		0.7	E	0	Q2426	B	0.2		C	0	E	0	Q2801	B		4.8	C	8.8	E	4.1	Q2802		B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E		3.6	Q2804	B	0	C	4.1		E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4		C	8.1	E	3.9	Q2807	B		4.1	C	5.4	E	3.5	Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																				
	2	2.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	9	4.9			11		5.0						3											2.2			32	4.1		12		2.1	1	2.4		13	3.0	2		2.4	14	2.9			3	2.2	15	3.3			4	4.6	16	8.8			5	4.4	IC2803	1		4.4	IC2406	1	3.3	Q2401	B		0	2		1.5	2			0.3		3	3.9		3	1.8	4	4.0	5	1.5	9	8.8	6		1.5		10				8.8		7											0.3			11			8.8		8	3.0	12	3.9	9	3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403	B		2.7	C		8.8	C			8.8		C	6.8		E	3.0	E	2.1	E	2.1	IC2406	1	3.3	Q2404	B			4.5		Q2405																				B			0		2		0.3		C	8.8	E	0.8	3	1.8	C	8.8				E	0							5	1.5	6				1.5					7	0.3	8		3.0			9	3.0	10	0.7	11		2.9	12	0.3	13	5.0	14	2.9	16		3.0	IC2801	9	0	Q2406	B	2.1	Q2426		B	0.2			10	5.0		C			8.8	C	0	11	5.0	E	1.5	E	0	12	5.0	Q2408	B	1.7		C	4.5			E			2.3			Q2409	B		4.5	C								8.8		E	3.8	Q2410		B	2.3		C			4.5		E	1.6	Q2411		B	0		C		0.8				E	0	Q2412		B		0	C	8.8	E	0		Q2413		B	3.0	C	0.4	E	0	Q2414		B	0		C	5.0	E	0.3		Q2415		B	2.9		C	0.3	E	0.5	Q2416	B		0.9	C	1.5	E	0	Q2417	B		0	C	0	E	0.8	Q2418	B		0.7	C	1.5	E	0	Q2419	B		0.8	C	1.4	E	0	Q2420	B		8.2	C	5.7	E	8.8	Q2421	B		3.1	C	8.2	E	2.6	Q2422	B	5.8		C	8.8	E	5.0	Q2424	B	0.7		C	0.7	E	0	Q2426	B	0.2		C	0	E	0	Q2801	B	4.8		C	8.8	E	4.1	Q2802	B	2.6		C	4.8	E	2.0	Q2803	B	4.1		C	8.8	E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1	C		5.4	E	3.5	Q2808	B	3.5	C		8.8	E	2.8	Q2809	B	3.6	C		6.1	E	2.8	Q2810	B	2.8		C	8.8	E	2.2																																																													
	11	5.0			3		2.2						32									4.1		12		2.1	1	2.4		13		3.0	2	2.4	14	2.9	3	2.2		15	3.3	4			4.6	16	8.8	5			4.4	IC2803	1	4.4			IC2406	1		3.3	Q2401	B		0	2		1.5		2	0.3		3	3.9			3		1.8	4		4.0	5	1.5	9	8.8	6	1.5	10	8.8		7		0.3				11		8.8									8		3.0		12	3.9			9	3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8		Q2403	B		2.7	C		8.8		C	8.8		C	6.8			E		3.0	E		2.1	E	2.1	IC2406	1	3.3		Q2404	B		4.5			Q2405																					B	0		2	0.3		C		8.8	E	0.8	3	1.8	C	8.8	E	0	5				1.5	6							1.5	7	0.3				8					3.0	9	3.0		10		0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1		Q2426	B		0.2	10			5.0	C			8.8	C		0			11	5.0	E	1.5	E	0	12	5.0	Q2408	B	1.7		C	4.5		E	2.3			Q2409			B				4.5		C	8.8				E				3.8		Q2410	B			2.3	C		4.5		E	1.6		Q2411	B			0	C	0.8	E		0	Q2412		B	0	C		8.8	E		0	Q2413	B	3.0	C			0.4	E	0	Q2414	B	0	C		5.0	E	0.3		Q2415	B	2.9	C			0.3	E	0.5	Q2416	B	0.9	C	1.5		E	0	Q2417	B	0	C	0		E	0.8	Q2418	B	0.7	C	1.5		E	0	Q2419	B	0.8	C	1.4		E	0	Q2420	B	8.2	C	5.7		E	8.8	Q2421	B	3.1	C	8.2		E	2.6	Q2422	B	5.8	C	8.8		E	5.0	Q2424	B	0.7	C	0.7		E	0	Q2426	B	0.2	C	0		E	0	Q2801	B	4.8	C	8.8		E	4.1	Q2802	B	2.6	C	4.8		E	2.0	Q2803	B	4.1	C	8.8		E	3.6	Q2804	B	0	C	4.1		E	1.9	Q2805	B	8.1	C	4.4		E	8.8	Q2806	B	4.4	C	8.1		E	3.9	Q2807	B	4.1	C	5.4		E	3.5	Q2808	B	3.5	C	8.8		E	2.8	Q2809	B	3.6	C	6.1		E	2.8	Q2810	B	2.8	C	8.8		E	2.2																																																																		
	3	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	32	4.1			12		2.1						1					2.4			13	3.0		2		2.4	14	2.9	3	2.2		15	3.3	4	4.6	16	8.8	5		4.4	IC2803	1			4.4	IC2406	1	3.3			Q2401		B	0		2		1.5		2		0.3		3	3.9		3		1.8	4		4.0	5			1.5		9	8.8		6	1.5	10	8.8	7	0.3	11	8.8	8		3.0		12				3.9		9					3.0			13	3.1		10		0.7	14	3.2		11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403	B		2.7	C		8.8	C			8.8		C	6.8		E		3.0	E		2.1	E			2.1		IC2406	1		3.3	Q2404	B		4.5	Q2405			B		0																2			0.3				C	8.8	E		0.8	3		1.8		C	8.8	E	0	5	1.5	6	1.5	7	0.3				8	3.0					9		3.0	10	0.7				11	2.9				12	0.3	13		5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B		0.2	10		5.0	C			8.8		C	0			11	5.0			E	1.5		E			0	12	5.0	Q2408	B	1.7	C	4.5		E	2.3		Q2409	B		4.5	C						8.8			E	3.8		Q2410	B				2.3				C			4.5	E		1.6	Q2411	B	0		C	0.8	E		0	Q2412	B	0	C	8.8	E		0			Q2413	B	3.0	C	0.4	E		0		Q2414	B	0		C	5.0	E	0.3		Q2415	B	2.9	C	0.3	E	0.5			Q2416	B	0.9	C	1.5	E	0	Q2417		B	0	C	0	E	0.8	Q2418		B	0.7	C	1.5	E	0	Q2419		B	0.8	C	1.4	E	0	Q2420		B	8.2	C	5.7	E	8.8	Q2421		B	3.1	C	8.2	E	2.6	Q2422		B	5.8	C	8.8	E	5.0	Q2424		B	0.7	C	0.7	E	0	Q2426		B	0.2	C	0	E	0	Q2801		B	4.8	C	8.8	E	4.1	Q2802		B	2.6	C	4.8	E	2.0	Q2803		B	4.1	C	8.8	E	3.6	Q2804		B	0	C	4.1	E	1.9	Q2805		B	8.1	C	4.4	E	8.8	Q2806		B	4.4	C	8.1	E	3.9	Q2807		B	4.1	C	5.4	E	3.5	Q2808		B	3.5	C	8.8	E	2.8	Q2809		B	3.6	C	6.1	E	2.8	Q2810		B	2.8	C	8.8	E	2.2																																																																											
	12	2.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	1	2.4			13		3.0						2			2.4		14		2.9	3	2.2		15		3.3	4	4.6	16	8.8	5	4.4	IC2803	1	4.4	IC2406	1	3.3		Q2401		B			0		2	1.5					2	0.3	3	3.9		3		1.8		4		4.0	5		1.5		9	8.8		6	1.5			10		8.8	7		0.3	11	8.8	8	3.0	12	3.9	9	3.0		13		3.1				10		0.7			14		3.2		11	2.9	15		4.4		12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403	B		2.7	C		8.8	C		8.8		C	6.8		E	3.0			E		2.1	E		2.1		IC2406	1		3.3	Q2404			B			4.5		Q2405		B		0				2		0.3														C		8.8		E	0.8			3	1.8	C	8.8		E	0		5		1.5	6	1.5	7	0.3	8	3.0	9	3.0	10				0.7	11			2.9		12		0.3	13	5.0	14			2.9	16	3.0			IC2801	9	0		Q2406	B	2.1	Q2426	B		0.2	10		5.0	C		8.8		C	0		11	5.0			E		1.5	E			0	12			5.0	Q2408		B			1.7	C	4.5		E	2.3	Q2409	B		4.5	C			8.8		E	3.8			Q2410			B			2.3	C			4.5				E				1.6	Q2411	B	0	C	0.8	E		0	Q2412	B	0	C	8.8	E	0		Q2413	B	3.0	C	0.4		E	0			Q2414	B	0	C	5.0		E	0.3		Q2415	B		2.9	C	0.3	E	0.5		Q2416	B	0.9	C	1.5	E	0	Q2417		B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E	0		Q2419	B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E	8.8		Q2421	B	3.1	C	8.2	E	2.6		Q2422	B	5.8	C	8.8	E	5.0		Q2424	B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E	1.9		Q2805	B	8.1	C	4.4	E	8.8		Q2806	B	4.4	C	8.1	E	3.9		Q2807	B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8		Q2809	B	3.6	C	6.1	E	2.8		Q2810	B	2.8	C	8.8	E	2.2																																																																																			
	13	3.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	2	2.4			14		2.9			3		2.2	15	3.3	4	4.6		16		8.8	5	4.4	IC2803	1	4.4	IC2406	1	3.3	Q2401	B	0	2		1.5	2		0.3	3				3.9			3		1.8	4	4.0	5			1.5	9	8.8	6		1.5		10		8.8		7	0.3		11		8.8	8		3.0	12			3.9		9	3.0		13	3.1	10	0.7	14	3.2	11	2.9	15		4.4		12			0.3	16	8.8	13	5.0	Q2301	B		3.3		Q2402	B	6.8	Q2403	B	2.7	C	8.8	C	8.8	C	6.8		E	3.0		E	2.1		E		2.1	IC2406		1	3.3		Q2404		B	4.5		Q2405	B			0		2	0.3		C			8.8		E				0.8			3				1.8		C				8.8		E								0		5		1.5	6	1.5		7		0.3	8	3.0	9	3.0	10	0.7	11		2.9	12		0.3		13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406		B	2.1	Q2426	B	0.2		10	5.0	C		8.8	C	0	11	5.0	E	1.5	E	0				12	5.0			Q2408	B		1.7		C	4.5		E	2.3		Q2409		B	4.5		C	8.8			E		3.8	Q2410			B	2.3			C			4.5			E	1.6	Q2411		B	0		C		0.8	E		0	Q2412		B	0						C		8.8	E	0	Q2413	B	3.0	C	0.4		E		0	Q2414	B		0	C	5.0	E	0.3	Q2415	B		2.9	C	0.3	E	0.5	Q2416	B		0.9	C	1.5	E		0	Q2417		B		0	C	0	E	0.8	Q2418	B	0.7		C	1.5	E	0	Q2419	B	0.8	C		1.4	E	0	Q2420	B	8.2		C	5.7	E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8	C		8.8	E	5.0	Q2424	B	0.7	C		0.7	E	0	Q2426	B	0.2	C		0	E	0	Q2801	B	4.8	C		8.8	E	4.1	Q2802	B	2.6	C		4.8	E	2.0	Q2803	B	4.1	C		8.8	E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1	C		5.4	E	3.5	Q2808	B	3.5	C		8.8	E	2.8	Q2809	B	3.6	C		6.1	E	2.8	Q2810	B	2.8	C		8.8	E	2.2																																																																																																														
	14	2.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	3	2.2			15	3.3	4		4.6	16		8.8	5	4.4	IC2803	1	4.4	IC2406		1	3.3	Q2401		B	0		2	1.5		2	0.3	3		3.9	3		1.8	4				4.0		5	1.5		9	8.8	6	1.5			10	8.8	7	0.3		11		8.8		8		3.0	12		3.9		9	3.0		13	3.1			10		0.7	14		3.2	11	2.9	15	4.4	12	0.3	16	8.8		13	5.0	Q2301		B	3.3	Q2402	B	6.8	Q2403		B	2.7	C			8.8	C		8.8	C	6.8	E	3.0	E	2.1	E		2.1	IC2406		1	3.3		Q2404		B			4.5	Q2405				B	0			2			0.3		C	8.8		E			0.8		3				1.8			C				8.8		E				0		5				1.5			6	1.5		7		0.3	8	3.0	9	3.0		10	0.7	11	2.9	12	0.3	13	5.0		14	2.9		16		3.0	IC2801	9	0	Q2406	B		2.1	Q2426		B	0.2	10		5.0	C		8.8	C	0	11	5.0	E	1.5	E	0	12	5.0	Q2408	B	1.7			C	4.5				E		2.3		Q2409	B		4.5	C				8.8	E		3.8	Q2410			B		2.3				C	4.5			E			1.6			Q2411	B			0	C	0.8	E		0	Q2412		B			0	C		8.8	E		0	Q2413		B	3.0	C		0.4	E	0	Q2414	B	0		C		5.0	E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C	0			E	0.8	Q2418	B	0.7	C	1.5		E	0	Q2419	B	0.8	C	1.4		E	0	Q2420	B	8.2	C	5.7		E	8.8	Q2421	B	3.1	C	8.2		E	2.6	Q2422	B	5.8	C	8.8		E	5.0	Q2424	B	0.7	C	0.7		E	0	Q2426	B	0.2	C	0		E	0	Q2801	B	4.8	C	8.8		E	4.1	Q2802	B	2.6	C	4.8		E	2.0	Q2803	B	4.1	C	8.8		E	3.6	Q2804	B	0	C	4.1		E	1.9	Q2805	B	8.1	C	4.4		E	8.8	Q2806	B	4.4	C	8.1		E	3.9	Q2807	B	4.1	C	5.4		E	3.5	Q2808	B	3.5	C	8.8		E	2.8	Q2809	B	3.6	C	6.1		E	2.8	Q2810	B	2.8	C	8.8		E	2.2																																																																																																																			
	15	3.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	4	4.6		16	8.8	5	4.4	IC2803	1	4.4		IC2406	1	3.3		Q2401	B		0	2	1.5			2	0.3		3	3.9		3	1.8	4		4.0	5		1.5	9				8.8	6	1.5	10		8.8	7	0.3	11			8.8	8	3.0	12		3.9		9		3.0		13	3.1		10		0.7	14		3.2	11			2.9		15	4.4		12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8		Q2403	B	2.7		C	8.8			C	8.8	C	6.8		E	3.0		E	2.1	E	2.1	IC2406	1	3.3	Q2404		B			4.5	Q2405				B			0					2	0.3			C			8.8		E	0.8		3			1.8		C				8.8			E				0		5				1.5		6		1.5		7		0.3	8	3.0		9		3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801		9	0		Q2406		B		2.1	Q2426		B		0.2			10	5.0	C		8.8	C	0	11	5.0	E	1.5	E	0	12	5.0	Q2408	B	1.7		C	4.5	E		2.3	Q2409	B			4.5		C			8.8		E	3.8		Q2410		B	2.3		C				4.5		E	1.6			Q2411	B			0			C				0.8	E		0	Q2412	B	0		C			8.8	E	0	Q2413	B		3.0	C	0.4	E			0	Q2414	B	0	C	5.0	E		0.3	Q2415	B	2.9	C	0.3	E	0.5		Q2416	B	0.9	C	1.5	E	0		Q2417	B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E	0	Q2419		B	0.8	C	1.4	E	0	Q2420		B	8.2	C	5.7	E	8.8	Q2421		B	3.1	C	8.2	E	2.6	Q2422		B	5.8	C	8.8	E	5.0	Q2424		B	0.7	C	0.7	E	0	Q2426		B	0.2	C	0	E	0	Q2801		B	4.8	C	8.8	E	4.1	Q2802		B	2.6	C	4.8	E	2.0	Q2803		B	4.1	C	8.8	E	3.6	Q2804		B	0	C	4.1	E	1.9	Q2805		B	8.1	C	4.4	E	8.8	Q2806		B	4.4	C	8.1	E	3.9	Q2807		B	4.1	C	5.4	E	3.5	Q2808		B	3.5	C	8.8	E	2.8	Q2809		B	3.6	C	6.1	E	2.8	Q2810		B	2.8	C	8.8	E	2.2																																																																																																																												
16	8.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
5	4.4	IC2803	1	4.4	IC2406	1	3.3		Q2401	B	0		2	1.5			2		0.3	3	3.9			3	1.8		4	4.0		5	1.5	9		8.8	6		1.5	10	8.8			7	0.3	11	8.8		8	3.0	12	3.9			9	3.0	13	3.1		10		0.7		14		3.2	11		2.9		15	4.4		12	0.3	16		8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403	B		2.7	C		8.8	C			8.8	C		6.8	E			3.0	E	2.1	E		2.1	IC2406		1	3.3	Q2404	B		4.5	Q2405			B			0					2			0.3					C	8.8			E			0.8		3	1.8		C			8.8		E		0		5	1.5		6	1.5			7		0.3				8		3.0		9		3.0		10	0.7	11	2.9	12		0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1		Q2426	B	0.2			10	5.0		C			8.8		C			0	11	5.0		E	1.5	E	0	12	5.0	Q2408	B	1.7	C	4.5		E	2.3		Q2409	B	4.5		C		8.8			E		3.8		Q2410	B		2.3	C				4.5	E		1.6	Q2411			B		0	C				0.8	E		0		Q2412	B		0	C	8.8	E		0		Q2413	B		3.0	C		0.4	E	0		Q2414		B	0	C	5.0	E	0.3	Q2415		B	2.9	C	0.3	E	0.5	Q2416		B	0.9	C	1.5	E	0	Q2417		B	0	C	0	E	0.8	Q2418		B	0.7	C	1.5	E	0	Q2419		B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E	8.8		Q2421	B	3.1	C	8.2	E	2.6		Q2422	B	5.8	C	8.8	E	5.0		Q2424	B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E	1.9		Q2805	B	8.1	C	4.4	E	8.8		Q2806	B	4.4	C	8.1	E	3.9		Q2807	B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8		Q2809	B	3.6	C	6.1	E	2.8		Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																				
IC2803	1		4.4	IC2406		1	3.3			Q2401	B		0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	2		1.5			2	0.3				3		3.9	3			1.8		4	4.0	5			1.5	9		8.8	6		1.5	10	8.8		7	0.3		11	8.8	8			3.0	12	3.9	9		3.0	13	3.1	10			0.7	14	3.2	11		2.9		15		4.4		12	0.3		16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403	B		2.7	C		8.8	C		8.8		C	6.8		E	3.0			E	2.1		E	2.1			IC2406	1	3.3	Q2404		B			4.5	Q2405		B		0				2			0.3					C			8.8					E	0.8			3			1.8		C	8.8		E	0		5	1.5	6		1.5	7	0.3	8		3.0	9			3.0		10				0.7		11	2.9	12		0.3		13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426		B	0.2		10	5.0			C	8.8	C		0	11		5.0			E		1.5			E	0	12		5.0	Q2408	B	1.7	C	4.5		E	2.3	Q2409	B		4.5	C			8.8	E		3.8	Q2410	B			2.3		C			4.5		E	1.6		Q2411		B	0		C				0.8		E	0		Q2412	B	0	C	8.8	E			0	Q2413	B	3.0	C	0.4		E	0		Q2414		B	0		C	5.0	E	0.3		Q2415	B	2.9	C	0.3	E	0.5		Q2416	B	0.9	C	1.5	E	0		Q2417	B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E	0		Q2419	B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E	8.8	Q2421		B	3.1	C	8.2	E	2.6	Q2422		B	5.8	C	8.8	E	5.0	Q2424		B	0.7	C	0.7	E	0	Q2426		B	0.2	C	0	E	0	Q2801		B	4.8	C	8.8	E	4.1	Q2802		B	2.6	C	4.8	E	2.0	Q2803		B	4.1	C	8.8	E	3.6	Q2804		B	0	C	4.1	E	1.9	Q2805		B	8.1	C	4.4	E	8.8	Q2806		B	4.4	C	8.1	E	3.9	Q2807		B	4.1	C	5.4	E	3.5	Q2808		B	3.5	C	8.8	E	2.8	Q2809		B	3.6	C	6.1	E	2.8	Q2810		B	2.8	C	8.8	E	2.2																																																																																																																																												
	2		0.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	3		3.9			3	1.8				4		4.0	5			1.5		9	8.8	6			1.5	10		8.8	7		0.3	11	8.8		8	3.0		12	3.9	9			3.0	13	3.1	10		0.7	14	3.2	11		2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403	B	2.7	C		8.8	C		8.8	C		6.8		E	3.0		E	2.1		E		2.1	IC2406		1	3.3			Q2404	B		4.5	Q2405				B	0			2			0.3			C		8.8				E			0.8					3			1.8				C	8.8	E	0		5	1.5	6	1.5	7	0.3	8	3.0	9	3.0		10	0.7	11		2.9	12	0.3	13		5.0	14			2.9	16	3.0		IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2	10	5.0	C	8.8	C	0	11		5.0	E		1.5	E			0	12		5.0	Q2408			B	1.7	C		4.5	E		2.3			Q2409		B			4.5	C	8.8		E		3.8	Q2410	B	2.3		C	4.5		E		1.6	Q2411		B	0	C		0.8		E			0		Q2412		B	0		C	8.8			E	0	Q2413	B	3.0	C	0.4	E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B		2.9	C		0.3	E	0.5	Q2416		B	0.9	C		1.5	E	0	Q2417	B	0	C	0	E		0.8	Q2418	B	0.7	C	1.5	E		0	Q2419	B	0.8	C	1.4	E		0	Q2420	B	8.2	C	5.7	E		8.8	Q2421	B	3.1	C	8.2	E		2.6	Q2422	B	5.8	C	8.8	E		5.0	Q2424	B	0.7	C	0.7		E	0	Q2426	B	0.2	C	0		E	0	Q2801	B	4.8	C	8.8		E	4.1	Q2802	B	2.6	C	4.8		E	2.0	Q2803	B	4.1	C	8.8		E	3.6	Q2804	B	0	C	4.1		E	1.9	Q2805	B	8.1	C	4.4		E	8.8	Q2806	B	4.4	C	8.1		E	3.9	Q2807	B	4.1	C	5.4		E	3.5	Q2808	B	3.5	C	8.8		E	2.8	Q2809	B	3.6	C	6.1		E	2.8	Q2810	B	2.8	C	8.8		E	2.2																																																																																																																																																																	
	3		1.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	4		4.0			5	1.5				9		8.8	6			1.5		10	8.8	7			0.3	11		8.8	8		3.0	12	3.9		9	3.0		13	3.1	10		0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403		B	2.7		C	8.8		C	8.8	C		6.8	E		3.0	E		2.1		E	2.1		IC2406	1		3.3		Q2404			B	4.5				Q2405		B					0	2			0.3			C			8.8		E				0.8			3				1.8	C		8.8	E		0		5	1.5	6	1.5		7	0.3	8	3.0	9	3.0	10	0.7	11	2.9		12	0.3	13		5.0	14	2.9	16	3.0	IC2801	9		0	Q2406	B	2.1	Q2426		B	0.2		10	5.0		C	8.8	C	0	11	5.0	E	1.5	E		0	12		5.0	Q2408			B	1.7		C				4.5	E	2.3		Q2409	B		4.5					C			8.8	E	3.8		Q2410		B		2.3	C		4.5	E	1.6	Q2411		B			0	C	0.8		E	0	Q2412			B			0	C	8.8	E	0	Q2413	B	3.0	C	0.4		E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9	C		0.3		E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C	0		E	0.8	Q2418	B	0.7	C	1.5		E	0	Q2419	B	0.8	C	1.4		E	0	Q2420	B	8.2	C	5.7		E	8.8	Q2421	B	3.1	C	8.2		E	2.6	Q2422	B	5.8	C	8.8		E	5.0	Q2424	B	0.7	C	0.7		E	0	Q2426	B	0.2	C	0		E	0	Q2801	B	4.8	C	8.8		E	4.1	Q2802	B	2.6	C	4.8		E	2.0	Q2803	B	4.1	C	8.8		E	3.6	Q2804	B	0	C	4.1		E	1.9	Q2805	B	8.1	C	4.4		E	8.8	Q2806	B	4.4	C	8.1		E	3.9	Q2807	B	4.1	C	5.4		E	3.5	Q2808	B	3.5	C	8.8		E	2.8	Q2809	B	3.6	C	6.1		E	2.8	Q2810	B	2.8	C	8.8		E	2.2																																																																																																																																																																						
	5		1.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	9		8.8			6	1.5				10		8.8	7			0.3		11	8.8	8			3.0	12		3.9	9		3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403		B	2.7		C	8.8			C	8.8		C	6.8		E	3.0	E		2.1	E		2.1	IC2406		1		3.3	Q2404			B		4.5					Q2405	B						0					2	0.3			C			8.8			E		0.8			3	1.8		C	8.8		E		0	5		1.5	6		1.5		7	0.3	8	3.0		9	3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1		Q2426	B	0.2		10	5.0			C	8.8		C	0		11	5.0	E	1.5	E	0	12	5.0	Q2408		B	1.7		C				4.5	E		2.3				Q2409	B	4.5			C		8.8			E		3.8			Q2410	B	2.3				C	4.5	E	1.6		Q2411	B	0			C	0.8		E	0	Q2412	B	0	C		8.8		E	0	Q2413	B	3.0	C	0.4	E		0	Q2414	B	0	C	5.0	E		0.3	Q2415	B	2.9	C	0.3	E		0.5	Q2416	B	0.9	C	1.5	E	0		Q2417	B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E	0		Q2419	B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E	8.8		Q2421	B	3.1	C	8.2	E	2.6		Q2422	B	5.8	C	8.8	E	5.0		Q2424	B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E	1.9		Q2805	B	8.1	C	4.4	E	8.8		Q2806	B	4.4	C	8.1	E	3.9		Q2807	B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8		Q2809	B	3.6	C	6.1	E	2.8		Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																														
	6		1.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	10		8.8			7	0.3				11		8.8	8			3.0		12	3.9	9		3.0	13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403		B	2.7		C	8.8			C	8.8		C	6.8			E	3.0		E	2.1		E	2.1	IC2406		1	3.3		Q2404			B		4.5				Q2405		B						0						2			0.3		C	8.8		E	0.8		3	1.8			C		8.8			E	0		5	1.5		6		1.5	7	0.3	8	3.0		9	3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426		B	0.2		10	5.0			C	8.8		C	0			11	5.0		E	1.5		E	0	12	5.0	Q2408	B	1.7	C			4.5	E		2.3				Q2409	B		4.5					C	8.8		E	3.8		Q2410			B	2.3	C		4.5		E	1.6	Q2411	B		0	C	0.8	E			0	Q2412	B		0	C		8.8	E		0	Q2413	B	3.0	C	0.4	E	0		Q2414	B	0	C	5.0	E	0.3		Q2415	B	2.9	C	0.3	E	0.5		Q2416	B	0.9	C	1.5	E	0		Q2417	B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E	0		Q2419	B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E	8.8		Q2421	B	3.1	C	8.2	E	2.6		Q2422	B	5.8	C	8.8	E	5.0		Q2424	B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E	1.9		Q2805	B	8.1	C	4.4	E	8.8		Q2806	B	4.4	C	8.1	E	3.9		Q2807	B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8		Q2809	B	3.6	C	6.1	E	2.8		Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																					
	7		0.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	11		8.8			8	3.0				12		3.9	9	3.0		13	3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403		B	2.7		C	8.8			C	8.8		C	6.8			E	3.0		E	2.1			E	2.1		IC2406	1		3.3	Q2404			B	4.5					Q2405		B						0						2	0.3				C	8.8		E	0.8		3	1.8		C	8.8		E	0			5		1.5			6	1.5	7	0.3	8		3.0	9	3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426		B	0.2		10	5.0			C	8.8		C	0			11	5.0		E	1.5			E	0		12	5.0		Q2408	B	1.7	C		4.5	E	2.3			Q2409	B		4.5					C		8.8				E	3.8	Q2410		B	2.3	C			4.5	E	1.6	Q2411	B	0	C	0.8	E		0		Q2412	B	0	C		8.8	E		0		Q2413	B	3.0	C	0.4	E	0		Q2414	B	0	C	5.0	E	0.3		Q2415	B	2.9	C	0.3	E	0.5		Q2416	B	0.9	C	1.5	E	0		Q2417	B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E	0		Q2419	B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E	8.8		Q2421	B	3.1	C	8.2	E	2.6		Q2422	B	5.8	C	8.8	E	5.0		Q2424	B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E	1.9		Q2805	B	8.1	C	4.4	E	8.8		Q2806	B	4.4	C	8.1	E	3.9		Q2807	B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8		Q2809	B	3.6	C	6.1	E	2.8		Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																												
	8		3.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	12		3.9			9	3.0	13			3.1	10	0.7	14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403		B	2.7		C	8.8			C	8.8		C	6.8			E	3.0		E	2.1			E	2.1		IC2406	1			3.3	Q2404			B		4.5				Q2405	B							0						2	0.3			C		8.8	E	0.8			3	1.8		C	8.8		E	0		5	1.5		6	1.5			7	0.3	8		3.0	9	3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426		B	0.2		10	5.0			C	8.8		C	0			11	5.0		E	1.5			E	0		12	5.0			Q2408	B		1.7	C			4.5	E	2.3		Q2409	B	4.5				C		8.8				E	3.8		Q2410		B		2.3	C		4.5	E	1.6	Q2411	B	0	C	0.8	E		0	Q2412	B	0	C	8.8	E			0	Q2413	B		3.0	C	0.4	E	0		Q2414	B	0	C	5.0	E	0.3		Q2415	B	2.9	C	0.3	E	0.5		Q2416	B	0.9	C	1.5	E	0		Q2417	B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E	0		Q2419	B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E	8.8		Q2421	B	3.1	C	8.2	E	2.6		Q2422	B	5.8	C	8.8	E	5.0		Q2424	B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E	1.9		Q2805	B	8.1	C	4.4	E	8.8		Q2806	B	4.4	C	8.1	E	3.9		Q2807	B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8		Q2809	B	3.6	C	6.1	E	2.8		Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																			
	9		3.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	13	3.1	10		0.7	14	3.2	11	2.9		15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403		B	2.7		C	8.8			C	8.8		C	6.8			E	3.0		E	2.1			E	2.1		IC2406	1			3.3	Q2404			B			4.5				Q2405		B					0						2	0.3		C			8.8	E	0.8			3		1.8	C	8.8			E	0		5	1.5		6	1.5		7	0.3	8	3.0	9		3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426		B	0.2		10	5.0			C	8.8		C	0			11	5.0		E	1.5			E	0		12	5.0			Q2408	B		1.7	C				4.5		E	2.3			Q2409	B	4.5			C	8.8			E	3.8		Q2410			B	2.3	C	4.5			E	1.6	Q2411	B	0	C	0.8	E		0	Q2412	B	0	C	8.8	E		0	Q2413	B	3.0	C		0.4	E		0	Q2414	B	0	C	5.0	E	0.3		Q2415	B	2.9	C	0.3	E	0.5		Q2416	B	0.9	C	1.5	E	0		Q2417	B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E	0		Q2419	B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E	8.8		Q2421	B	3.1	C	8.2	E	2.6		Q2422	B	5.8	C	8.8	E	5.0		Q2424	B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E	1.9		Q2805	B	8.1	C	4.4	E	8.8		Q2806	B	4.4	C	8.1	E	3.9		Q2807	B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8		Q2809	B	3.6	C	6.1	E	2.8		Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																										
10	0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
14	3.2	11	2.9	15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402	B	6.8	Q2403		B	2.7		C	8.8			C	8.8		C	6.8			E	3.0		E	2.1			E	2.1		IC2406	1			3.3	Q2404			B			4.5				Q2405			B						0			2		0.3	C			8.8		E	0.8		3			1.8	C	8.8			E		0	5	1.5			6	1.5		7	0.3	8	3.0	9	3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426		B	0.2		10	5.0			C	8.8		C	0			11	5.0		E	1.5			E	0		12	5.0			Q2408	B		1.7	C				4.5		E	2.3				Q2409		B	4.5				C	8.8		E	3.8	Q2410		B	2.3	C	4.5			E	1.6	Q2411	B	0	C		0.8	E		0	Q2412	B	0	C	8.8	E		0	Q2413	B	3.0	C	0.4	E		0	Q2414	B	0	C	5.0	E	0.3		Q2415	B	2.9	C	0.3	E	0.5		Q2416	B	0.9	C	1.5	E	0		Q2417	B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E	0		Q2419	B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E	8.8		Q2421	B	3.1	C	8.2	E	2.6		Q2422	B	5.8	C	8.8	E	5.0		Q2424	B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E	1.9		Q2805	B	8.1	C	4.4	E	8.8		Q2806	B	4.4	C	8.1	E	3.9		Q2807	B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8		Q2809	B	3.6	C	6.1	E	2.8		Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																	
11	2.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
15	4.4	12	0.3	16	8.8	13	5.0	Q2301	B	3.3	Q2402		B	6.8		Q2403	B			2.7	C		8.8	C			8.8	C		6.8	E			3.0	E		2.1	E			2.1	IC2406			1			3.3				Q2404			B						4.5	Q2405		B			0	2			0.3		C	8.8			E		0.8	3		1.8			C	8.8	E		0	5		1.5	6	1.5	7		0.3	8	3.0	9	3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406		B	2.1		Q2426	B			0.2	10		5.0	C			8.8	C		0	11			5.0	E		1.5	E			0	12		5.0	Q2408				B		1.7	C				4.5		E	2.3		Q2409			B	4.5	C	8.8		E	3.8	Q2410		B	2.3			C	4.5	E	1.6	Q2411		B	0		C	0.8	E	0	Q2412	B	0	C		8.8	E	0	Q2413	B	3.0	C		0.4	E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C		0	E	0.8	Q2418	B	0.7	C		1.5	E	0	Q2419	B	0.8	C		1.4	E	0	Q2420	B	8.2	C		5.7	E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8	C		8.8	E	5.0	Q2424	B	0.7	C		0.7	E	0	Q2426	B	0.2	C		0	E	0	Q2801	B	4.8	C		8.8	E	4.1	Q2802	B	2.6	C		4.8	E	2.0	Q2803	B	4.1	C		8.8	E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1	C		5.4	E	3.5	Q2808	B	3.5	C		8.8	E	2.8	Q2809	B	3.6	C		6.1	E	2.8	Q2810	B	2.8	C		8.8	E	2.2																																																																																																																																																																																																																				
12	0.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
16	8.8	13	5.0	Q2301	B	3.3	Q2402		B	6.8			Q2403	B			2.7			C	8.8		C	8.8			C	6.8		E	3.0			E	2.1		E	2.1			IC2406				1			3.3						Q2404	B		4.5			Q2405	B			0			2	0.3			C		8.8	E			0.8		3	1.8		C	8.8		E	0	5	1.5	6	1.5		7	0.3	8	3.0	9	3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406		B	2.1			Q2426	B			0.2			10	5.0		C	8.8			C	0		11	5.0			E	1.5		E	0			12	5.0		Q2408					B		1.7	C	4.5			E	2.3	Q2409	B	4.5			C	8.8	E	3.8	Q2410		B	2.3			C	4.5	E		1.6	Q2411	B	0		C	0.8	E	0	Q2412	B	0	C		8.8	E	0	Q2413	B	3.0	C		0.4	E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C		0	E	0.8	Q2418	B	0.7	C		1.5	E	0	Q2419	B	0.8	C		1.4	E	0	Q2420	B	8.2	C		5.7	E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8	C		8.8	E	5.0	Q2424	B	0.7	C		0.7	E	0	Q2426	B	0.2	C		0	E	0	Q2801	B	4.8	C		8.8	E	4.1	Q2802	B	2.6	C		4.8	E	2.0	Q2803	B	4.1	C		8.8	E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1	C		5.4	E	3.5	Q2808	B	3.5	C		8.8	E	2.8	Q2809	B	3.6	C		6.1	E	2.8	Q2810	B	2.8	C		8.8	E	2.2																																																																																																																																																																																																																								
13	5.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Q2301	B	3.3	Q2402		B	6.8			Q2403	B				2.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	C	8.8			C	8.8				C				6.8			E			3.0	E		2.1	E			2.1	IC2406		1	3.3			Q2404	B		4.5	Q2405							B		0	2		0.3			C		8.8		E				0.8			3			1.8	C			8.8		E	0		5	1.5		6	1.5	7	0.3	8		3.0	9	3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2	10		5.0	C			8.8	C				0			11			5.0	E		1.5	E			0	12		5.0	Q2408			B	1.7		C	4.5			E	2.3					Q2409		B	4.5	C	8.8	E	3.8		Q2410	B	2.3	C	4.5	E		1.6	Q2411	B	0	C		0.8	E	0		Q2412	B	0	C	8.8	E	0	Q2413	B	3.0	C	0.4	E	0	Q2414	B	0	C	5.0	E	0.3	Q2415	B	2.9	C	0.3	E	0.5	Q2416	B	0.9	C	1.5	E	0	Q2417	B	0	C	0	E	0.8	Q2418	B	0.7	C	1.5	E	0	Q2419	B	0.8	C	1.4	E	0	Q2420	B	8.2	C	5.7	E	8.8	Q2421	B	3.1	C	8.2	E	2.6	Q2422	B	5.8	C	8.8	E	5.0	Q2424	B	0.7	C	0.7	E	0	Q2426	B	0.2	C	0	E	0	Q2801	B	4.8	C	8.8	E	4.1	Q2802	B	2.6	C	4.8	E	2.0	Q2803	B	4.1	C	8.8	E	3.6	Q2804	B	0	C	4.1	E	1.9	Q2805	B	8.1	C	4.4	E	8.8	Q2806	B	4.4	C	8.1	E	3.9	Q2807	B	4.1	C	5.4	E	3.5	Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																												
	C	8.8			C	6.8				E				3.0			E			2.1	E		2.1	IC2406			1			3.3	Q2404				B		4.5			Q2405			B		0	2	0.3	C		8.8			E		0.8		3				1.8			C			8.8	E		0	5		1.5	6	1.5	7	0.3		8	3.0	9	3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B		2.1	Q2426		B	0.2		10	5.0	C		8.8	C			0	11				5.0			E			1.5	E		0	12			5.0	Q2408		B				1.7	C		4.5	E		2.3	Q2409	B	4.5			C			8.8	E	3.8	Q2410	B	2.3			C	4.5	E	1.6	Q2411		B		0	C	0.8		E	0	Q2412	B		0	C	8.8	E	0	Q2413		B	3.0	C	0.4	E	0		Q2414	B	0	C	5.0	E		0.3	Q2415	B	2.9	C	0.3		E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0		C	0	E	0.8	Q2418	B		0.7	C	1.5	E	0	Q2419		B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E		8.8	Q2421	B	3.1	C	8.2		E	2.6	Q2422	B	5.8	C		8.8	E	5.0	Q2424	B	0.7		C	0.7	E	0	Q2426	B		0.2	C	0	E	0	Q2801		B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E		2.0	Q2803	B	4.1	C	8.8		E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1		C	4.4	E	8.8	Q2806	B		4.4	C	8.1	E	3.9	Q2807		B	4.1	C	5.4	E	3.5	Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																							
	C	6.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	E	3.0			E	2.1				E				2.1			IC2406			1	3.3		Q2404				B			4.5			Q2405		B	0	2		0.3				C		8.8	E	0.8	3		1.8			C		8.8		E				0			5	1.5		6	1.5	7	0.3	8		3.0	9	3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426		B	0.2		10		5.0			C	8.8		C	0	11		5.0	E			1.5	E				0			12			5.0	Q2408		B	1.7			C			4.5			E	2.3	Q2409	B	4.5	C	8.8	E		3.8	Q2410			B	2.3		C	4.5	E		1.6	Q2411		B	0	C	0.8	E			0	Q2412	B	0	C	8.8	E	0		Q2413	B	3.0	C	0.4	E	0		Q2414	B	0	C	5.0	E	0.3	Q2415		B	2.9	C	0.3	E	0.5	Q2416		B	0.9	C	1.5	E	0	Q2417		B	0	C	0	E	0.8	Q2418		B	0.7	C	1.5	E	0	Q2419		B	0.8	C	1.4	E	0	Q2420		B	8.2	C	5.7	E	8.8	Q2421	B		3.1	C	8.2	E	2.6	Q2422	B		5.8	C	8.8	E	5.0	Q2424	B		0.7	C	0.7	E	0	Q2426	B		0.2	C	0	E	0	Q2801	B		4.8	C	8.8	E	4.1	Q2802	B		2.6	C	4.8	E	2.0	Q2803	B	4.1		C	8.8	E	3.6	Q2804	B	0		C	4.1	E	1.9	Q2805	B	8.1		C	4.4	E	8.8	Q2806	B	4.4		C	8.1	E	3.9	Q2807	B	4.1		C	5.4	E	3.5	Q2808	B	3.5		C	8.8	E	2.8	Q2809	B	3.6		C	6.1	E	2.8	Q2810	B		2.8	C	8.8	E	2.2																																																																																																																																																																																																																																															
	E	2.1			E	2.1				IC2406				1						3.3	Q2404						B			4.5					Q2405	B	0		2				0.3		C	8.8	E	0.8		3			1.8		C		8.8				E			0	5		1.5	6	1.5	7	0.3		8	3.0	9	3.0	10	0.7	11	2.9	12	0.3	13	5.0	14	2.9	16		3.0	IC2801		9	0			Q2406	B		2.1		Q2426			B	0.2		10	5.0	C		8.8	C			0	11				5.0			E			1.5			E	0			12			5.0			Q2408	B		1.7	C	4.5	E	2.3	Q2409	B				4.5	C		8.8	E	3.8	Q2410	B			2.3	C	4.5	E	1.6	Q2411		B		0	C	0.8	E	0	Q2412	B		0	C	8.8	E	0	Q2413	B		3.0	C	0.4	E	0	Q2414		B	0	C	5.0	E	0.3	Q2415		B	2.9	C	0.3	E	0.5	Q2416		B	0.9	C	1.5	E	0	Q2417		B	0	C	0	E	0.8	Q2418		B	0.7	C	1.5	E	0	Q2419		B	0.8	C	1.4	E	0	Q2420		B	8.2	C	5.7	E	8.8	Q2421		B	3.1	C	8.2	E	2.6	Q2422		B	5.8	C	8.8	E	5.0	Q2424		B	0.7	C	0.7	E	0	Q2426		B	0.2	C	0	E	0	Q2801		B	4.8	C	8.8	E	4.1	Q2802		B	2.6	C	4.8	E	2.0	Q2803		B	4.1	C	8.8	E	3.6	Q2804		B	0	C	4.1	E	1.9	Q2805		B	8.1	C	4.4	E	8.8	Q2806		B	4.4	C	8.1	E	3.9	Q2807		B	4.1	C	5.4	E	3.5	Q2808		B	3.5	C	8.8	E	2.8	Q2809		B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																									
	E	2.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	IC2406	1			3.3	Q2404								B						4.5						Q2405	B		0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		2			0.3									C					8.8	E		0.8			3		1.8		C	8.8		E				0	5		1.5				6		1.5	7	0.3	8		3.0	9		3.0		10	0.7	11	2.9			12		0.3	13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1	Q2426	B	0.2	10	5.0	C	8.8	C	0	11	5.0	E		1.5			E	0				12		5.0					Q2408	B		1.7	C	4.5		E	2.3			Q2409	B				4.5			C		8.8	E		3.8	Q2410	B	2.3	C	4.5		E	1.6		Q2411		B	0	C	0.8	E	0	Q2412	B	0	C			8.8	E		0	Q2413	B	3.0	C	0.4	E	0	Q2414	B	0	C	5.0	E	0.3	Q2415	B	2.9	C	0.3	E	0.5	Q2416	B	0.9	C	1.5	E	0	Q2417	B	0	C	0	E	0.8	Q2418	B	0.7	C	1.5	E	0	Q2419	B	0.8	C	1.4	E	0	Q2420	B	8.2	C	5.7	E	8.8	Q2421	B	3.1	C	8.2	E	2.6	Q2422	B	5.8	C	8.8	E	5.0	Q2424	B	0.7	C	0.7	E	0	Q2426	B	0.2	C	0	E	0	Q2801	B	4.8	C	8.8	E	4.1	Q2802	B	2.6	C	4.8	E	2.0	Q2803	B	4.1	C	8.8	E	3.6	Q2804	B	0	C	4.1	E	1.9	Q2805	B	8.1	C	4.4	E	8.8	Q2806	B	4.4	C	8.1	E	3.9	Q2807	B	4.1	C	5.4	E	3.5	Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																																																										
		C			8.8									E					0.8	3		1.8			C		8.8		E	0		5				1.5	6		1.5				7		0.3	8	3.0	9		3.0	10		0.7		11	2.9	12	0.3			13		5.0	14	2.9	16	3.0	IC2801	9		0	Q2406		B	2.1		Q2426	B	0.2	10	5.0	C	8.8	C	0	11	5.0		E			1.5	E				0		12						5.0		Q2408	B	1.7		C	4.5				E				2.3			Q2409		B	4.5		C		8.8	E	3.8	Q2410		B	2.3				C	4.5	E	1.6	Q2411	B		0	C	0.8			E	0		Q2412		B	0	C	8.8	E	0		Q2413	B	3.0	C	0.4	E		0	Q2414	B	0	C	5.0		E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9		C	1.5	E	0	Q2417	B		0	C	0	E	0.8	Q2418		B	0.7	C	1.5	E	0		Q2419	B	0.8	C	1.4	E		0	Q2420	B	8.2	C	5.7		E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8		C	8.8	E	5.0	Q2424	B		0.7	C	0.7	E	0	Q2426		B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E		4.1	Q2802	B	2.6	C	4.8		E	2.0	Q2803	B	4.1	C		8.8	E	3.6	Q2804	B	0		C	4.1	E	1.9	Q2805	B		8.1	C	4.4	E	8.8	Q2806		B	4.4	C	8.1	E	3.9	Q2807	B	4.1	C	5.4	E	3.5	Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																														
		E			0.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		3			1.8							C		8.8	E			0	5	1.5		6			1.5		7		0.3	8		3.0				9	3.0		10				0.7	11	2.9	12	0.3	13	5.0	14	2.9		16		3.0	IC2801	9	0	Q2406		B		2.1	Q2426	B	0.2	10		5.0		C			8.8	C			0	11	5.0	E	1.5	E	0	12	5.0	Q2408		B			1.7	C				4.5		E						2.3			Q2409	B		4.5	C			8.8	E		3.8		Q2410	B			2.3	C	4.5		E	1.6	Q2411	B	0			C	0.8		E		0	Q2412	B	0		C	8.8	E	0	Q2413			B	3.0	C		0.4	E	0	Q2414	B	0	C	5.0		E	0.3	Q2415	B	2.9	C	0.3		E	0.5	Q2416	B	0.9	C	1.5		E	0	Q2417	B	0	C	0		E	0.8	Q2418	B	0.7	C	1.5		E	0	Q2419	B	0.8	C	1.4		E	0	Q2420	B	8.2	C	5.7	E		8.8	Q2421	B	3.1	C	8.2	E		2.6	Q2422	B	5.8	C	8.8	E		5.0	Q2424	B	0.7	C	0.7	E		0	Q2426	B	0.2	C	0	E		0	Q2801	B	4.8	C	8.8	E		4.1	Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E	1.9		Q2805	B	8.1	C	4.4	E	8.8		Q2806	B	4.4	C	8.1	E	3.9		Q2807	B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8		Q2809	B	3.6	C	6.1	E		2.8	Q2810	B	2.8	C	8.8		E	2.2																																																																																																																																																																																																																																																																									
		C			8.8			E			0	5		1.5	6	1.5		7	0.3	8		3.0			9		3.0		10	0.7		11				2.9	12		0.3			13	5.0	14	2.9	16	3.0	IC2801	9	0	Q2406	B	2.1		Q2426		B	0.2			10	5.0	C		8.8	C	0		11		5.0			E	1.5			E	0	12	5.0	Q2408	B	1.7	C	4.5			E			2.3	Q2409				B		4.5						C				8.8		E	3.8		Q2410	B	2.3	C	4.5			E	1.6	Q2411	B	0	C		0.8	E		0	Q2412	B		0	C		8.8		E		0	Q2413	B	3.0	C	0.4	E			0	Q2414	B	0	C	5.0	E	0.3		Q2415	B	2.9	C	0.3	E	0.5		Q2416	B	0.9	C	1.5	E	0		Q2417	B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E	0		Q2419	B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E	8.8		Q2421	B	3.1	C	8.2	E	2.6		Q2422	B	5.8	C	8.8	E	5.0		Q2424	B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E	1.9		Q2805	B	8.1	C	4.4	E	8.8		Q2806	B	4.4	C	8.1	E	3.9		Q2807	B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8		Q2809	B	3.6	C	6.1	E	2.8		Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																																																	
		E			0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		5		1.5	6		1.5	7			0.3	8	3.0	9	3.0	10		0.7	11	2.9		12			0.3		13		5.0	14		2.9				16	3.0		IC2801		9	0	Q2406	B	2.1	Q2426	B		0.2	10		5.0	C	8.8			C	0		11	5.0	E	1.5		E	0	12		5.0		Q2408			B	1.7			C	4.5	E	2.3		Q2409	B	4.5	C			8.8			E					3.8		Q2410						B			2.3	C	4.5	E	1.6	Q2411		B	0	C	0.8	E	0	Q2412	B		0	C	8.8		E	0	Q2413	B		3.0		C	0.4		E		0	Q2414	B		0	C	5.0	E	0.3	Q2415	B	2.9		C	0.3	E	0.5	Q2416	B	0.9		C	1.5	E	0	Q2417	B	0		C	0	E	0.8	Q2418	B	0.7		C	1.5	E	0	Q2419	B	0.8		C	1.4	E	0	Q2420	B	8.2		C	5.7	E	8.8	Q2421	B	3.1		C	8.2	E	2.6	Q2422	B	5.8		C	8.8	E	5.0	Q2424	B	0.7		C	0.7	E	0	Q2426	B	0.2		C	0	E	0	Q2801	B	4.8		C	8.8	E	4.1	Q2802	B	2.6		C	4.8	E	2.0	Q2803	B	4.1		C	8.8	E	3.6	Q2804	B	0		C	4.1	E	1.9	Q2805	B	8.1		C	4.4	E	8.8	Q2806	B	4.4		C	8.1	E	3.9	Q2807	B	4.1		C	5.4	E	3.5	Q2808	B	3.5		C	8.8	E	2.8	Q2809	B	3.6		C	6.1	E	2.8	Q2810	B	2.8		C	8.8	E	2.2																																																																																																																																																																																																																																																																																											
		6		1.5	7		0.3	8			3.0	9	3.0	10	0.7	11		2.9	12	0.3		13			5.0		14		2.9	16		3.0				IC2801	9				0	Q2406		B	2.1		Q2426		B	0.2		10	5.0	C			8.8	C		0	11	5.0	E		1.5	E	0		12					5.0	Q2408			B	1.7	C	4.5			E	2.3	Q2409			B			4.5	C				8.8								E			3.8	Q2410	B	2.3	C		4.5	E	1.6	Q2411	B	0	C		0.8	E	0	Q2412	B		0	C		8.8	E	0		Q2413	B		3.0		C		0.4	E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C		0	E	0.8	Q2418	B	0.7	C		1.5	E	0	Q2419	B	0.8	C		1.4	E	0	Q2420	B	8.2	C		5.7	E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8	C		8.8	E	5.0	Q2424	B	0.7	C		0.7	E	0	Q2426	B	0.2	C		0	E	0	Q2801	B	4.8	C		8.8	E	4.1	Q2802	B	2.6	C		4.8	E	2.0	Q2803	B	4.1	C		8.8	E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1	C		5.4	E	3.5	Q2808	B	3.5	C		8.8	E	2.8	Q2809	B	3.6	C		6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																																																								
7		0.3	8	3.0	9		3.0	10	0.7		11	2.9	12	0.3	13	5.0		14	2.9	16		3.0			IC2801		9		0	Q2406		B					2.1				Q2426			B	0.2				10	5.0		C	8.8	C			0	11		5.0	E	1.5	E		0	12	5.0		Q2408					B				1.7	C	4.5	E			2.3	Q2409				B			4.5	C				8.8								E			3.8		Q2410	B	2.3		C	4.5	E		1.6	Q2411	B		0	C	0.8		E		0	Q2412		B	0	C			8.8		E		0		Q2413	B	3.0		C	0.4	E		0	Q2414	B		0	C	5.0		E	0.3	Q2415		B	2.9	C		0.3	E	0.5		Q2416	B	0.9		C	1.5	E		0	Q2417	B		0	C	0		E	0.8	Q2418		B	0.7	C		1.5	E	0		Q2419	B	0.8		C	1.4	E		0	Q2420	B		8.2	C	5.7		E	8.8	Q2421		B	3.1	C		8.2	E	2.6		Q2422	B	5.8		C	8.8	E		5.0	Q2424	B		0.7	C	0.7		E	0	Q2426		B	0.2	C		0	E	0		Q2801	B	4.8		C	8.8	E		4.1	Q2802	B		2.6	C	4.8		E	2.0	Q2803		B	4.1	C		8.8	E	3.6		Q2804	B	0		C	4.1	E		1.9	Q2805	B		8.1	C	4.4		E	8.8	Q2806		B	4.4	C		8.1	E	3.9	Q2807	B	4.1	C	5.4	E	3.5	Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																															
8		3.0	9	3.0	10		0.7	11	2.9		12	0.3	13	5.0	14	2.9		16	3.0	IC2801		9					0	Q2406	B			2.1		Q2426			B	0.2						10	5.0				C	8.8		C	0	11			5.0	E		1.5	E	0	12		5.0	Q2408	B							1.7				C	4.5	E	2.3		Q2409	B					4.5			C	8.8				E		3.8	Q2410			B		2.3	C		4.5			E	1.6	Q2411	B	0	C		0.8		E	0	Q2412	B	0		C		8.8		E	0	Q2413	B			3.0	C	0.4		E	0		Q2414	B		0	C	5.0	E	0.3		Q2415		B	2.9	C	0.3	E	0.5			Q2416	B	0.9	C	1.5	E	0			Q2417	B	0	C	0	E		0.8		Q2418	B	0.7	C	1.5		E	0		Q2419	B	0.8	C		1.4	E	0	Q2420		B	8.2		C	5.7	E	8.8	Q2421		B		3.1	C	8.2	E	2.6	Q2422			B	5.8	C	8.8	E	5.0	Q2424			B	0.7	C	0.7	E	0		Q2426		B	0.2	C	0	E		0	Q2801		B	4.8	C	8.8		E	4.1	Q2802	B		2.6	C		4.8	E	2.0	Q2803	B		4.1		C	8.8	E	3.6	Q2804	B			0	C	4.1	E	1.9	Q2805	B			8.1	C	4.4	E	8.8	Q2806		B		4.4	C	8.1	E	3.9		Q2807	B		4.1	C	5.4	E		3.5	Q2808	B		3.5	C	8.8	E	2.8	Q2809		B	3.6	C	6.1	E	2.8		Q2810	B	2.8	C	8.8	E		2.2																																																																																																																																																																																																																																																																				
9		3.0	10	0.7	11		2.9	12	0.3		13	5.0	14	2.9	16	3.0		IC2801	9			0		Q2406			B		2.1		Q2426	B					0.2	10		5.0				C	8.8				C	0		11	5.0	E			1.5	E		0	12	5.0	Q2408		B		1.7							C				4.5	E	2.3	Q2409			B		4.5			C			8.8	E		3.8		Q2410	B	2.3			C	4.5		E	1.6		Q2411	B		0	C		0.8	E	0	Q2412	B		0	C		8.8	E	0	Q2413		B		3.0	C		0.4	E	0	Q2414	B	0		C	5.0			E	0.3	Q2415	B	2.9	C	0.3			E	0.5	Q2416	B	0.9	C	1.5		E		0	Q2417	B	0	C	0	E			0.8	Q2418	B	0.7	C	1.5	E			0	Q2419	B	0.8	C	1.4	E			0	Q2420	B	8.2	C	5.7	E			8.8	Q2421	B	3.1	C	8.2	E			2.6	Q2422	B	5.8	C	8.8	E			5.0	Q2424	B	0.7	C	0.7	E		0		Q2426	B	0.2	C	0	E	0			Q2801	B	4.8	C	8.8	E	4.1			Q2802	B	2.6	C	4.8	E	2.0		Q2803		B	4.1	C	8.8	E	3.6		Q2804		B	0	C	4.1	E	1.9		Q2805		B	8.1	C	4.4	E	8.8		Q2806	B		4.4	C	8.1	E	3.9		Q2807	B		4.1	C	5.4	E	3.5	Q2808		B		3.5	C	8.8	E	2.8	Q2809		B		3.6	C	6.1	E	2.8			Q2810	B	2.8	C	8.8	E			2.2																																																																																																																																																																																																																																																																										
10		0.7	11	2.9	12		0.3	13	5.0		14	2.9	16	3.0	IC2801	9			0			Q2406					B		2.1			Q2426					B	0.2		10				5.0	C				8.8	C		0	11	5.0			E	1.5		E	0	12			5.0		Q2408							B				1.7	C	4.5				E	2.3	Q2409			B			4.5	C		8.8			E	3.8			Q2410	B		2.3	C			4.5	E	1.6	Q2411		B	0	C		0.8	E	0	Q2412		B	0	C			8.8	E	0	Q2413		B	3.0	C		0.4	E		0	Q2414	B		0	C		5.0	E	0.3	Q2415	B		2.9	C		0.3	E	0.5	Q2416	B	0.9		C		1.5	E	0	Q2417	B	0		C		0	E	0.8	Q2418	B	0.7		C		1.5	E	0	Q2419	B	0.8		C		1.4	E	0	Q2420	B		8.2	C		5.7	E	8.8	Q2421	B		3.1	C		8.2	E	2.6	Q2422	B		5.8	C		8.8	E	5.0	Q2424	B		0.7	C		0.7	E	0	Q2426	B	0.2		C		0	E	0	Q2801	B	4.8		C		8.8	E	4.1	Q2802	B	2.6			C	4.8	E	2.0	Q2803	B	4.1			C	8.8	E	3.6	Q2804	B	0			C	4.1	E	1.9	Q2805	B	8.1			C	4.4	E	8.8	Q2806	B	4.4			C	8.1	E	3.9	Q2807	B	4.1			C	5.4	E	3.5	Q2808	B	3.5			C	8.8	E	2.8	Q2809	B	3.6		C		6.1	E	2.8	Q2810	B	2.8		C	8.8	E	2.2																																																																																																																																																																																																																																																																							
11		2.9	12	0.3	13		5.0	14	2.9		16	3.0	IC2801	9		0	Q2406		B				2.1				Q2426		B				0.2				10	5.0		C				8.8	C				0	11		5.0	E	1.5			E	0		12	5.0	Q2408			B									1.7				C	4.5	E			2.3	Q2409	B			4.5	C		8.8	E	3.8	Q2410	B			2.3	C	4.5			E		1.6	Q2411			B	0	C		0.8	E	0	Q2412		B	0	C		8.8	E	0	Q2413		B	3.0	C	0.4		E	0	Q2414	B		0	C		5.0		E	0.3	Q2415	B		2.9	C	0.3		E	0.5	Q2416	B		0.9	C	1.5		E	0	Q2417	B		0	C	0		E	0.8	Q2418	B		0.7	C	1.5		E	0	Q2419	B		0.8	C	1.4		E	0	Q2420	B		8.2	C	5.7		E	8.8	Q2421	B		3.1	C	8.2		E	2.6	Q2422	B		5.8	C	8.8		E	5.0	Q2424	B		0.7	C	0.7		E	0	Q2426	B		0.2	C	0		E	0	Q2801	B		4.8	C	8.8		E	4.1	Q2802	B		2.6	C	4.8		E	2.0	Q2803		B	4.1	C	8.8		E	3.6	Q2804		B	0	C	4.1		E	1.9	Q2805		B	8.1	C	4.4		E	8.8	Q2806		B	4.4	C	8.1		E	3.9	Q2807		B	4.1	C	5.4		E	3.5		Q2808	B	3.5	C	8.8		E	2.8		Q2809	B	3.6	C	6.1		E	2.8	Q2810	B		2.8	C	8.8		E	2.2																																																																																																																																																																																																																																																																												
12		0.3	13	5.0	14		2.9	16	3.0	IC2801	9	0		Q2406		B			2.1		Q2426		B						0.2				10		5.0		C	8.8		C				0	11				5.0	E		1.5	E	0			12	5.0		Q2408	B				1.7									C				4.5	E	2.3	Q2409		B		4.5			C	8.8	E	3.8	Q2410	B		2.3	C	4.5	E	1.6	Q2411	B		0		C			0.8	E	0	Q2412		B	0	C		8.8	E	0	Q2413		B	3.0	C		0.4	E	0	Q2414	B		0	C		5.0	E	0.3	Q2415	B	2.9		C	0.3		E	0.5	Q2416	B	0.9		C	1.5		E	0	Q2417	B	0		C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8	E		2.8	Q2809	B	3.6		C	6.1	E		2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																		
13		5.0	14	2.9	16		3.0	IC2801	9		0	Q2406				B			2.1				Q2426						B				0.2		10		5.0	C		8.8				C	0				11	5.0		E	1.5	E			0	12			5.0				Q2408									B				1.7	C	4.5			E		2.3	Q2409		B	4.5	C	8.8		E		3.8	Q2410	B	2.3	C		4.5	E	1.6		Q2411			B	0	C		0.8	E	0	Q2412		B	0	C		8.8	E	0	Q2413		B	3.0	C		0.4	E	0	Q2414		B	0	C		5.0	E	0.3	Q2415	B		2.9	C		0.3	E	0.5	Q2416	B		0.9	C		1.5	E	0	Q2417	B		0	C		0	E	0.8	Q2418	B		0.7	C		1.5	E	0	Q2419	B		0.8	C		1.4	E	0	Q2420	B		8.2	C		5.7	E	8.8	Q2421	B		3.1	C		8.2	E	2.6	Q2422	B		5.8	C		8.8	E	5.0	Q2424	B		0.7	C		0.7	E	0	Q2426	B		0.2	C		0	E	0	Q2801	B		4.8	C		8.8	E	4.1	Q2802	B		2.6	C		4.8	E	2.0	Q2803	B		4.1	C		8.8	E	3.6	Q2804	B		0	C		4.1	E	1.9	Q2805	B		8.1	C		4.4	E	8.8	Q2806	B		4.4	C		8.1	E	3.9	Q2807	B		4.1	C		5.4	E	3.5	Q2808	B	3.5		C		8.8	E	2.8	Q2809	B	3.6		C		6.1	E	2.8	Q2810	B		2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																																															
14	2.9	16	3.0	IC2801	9	0	Q2406		B		2.1					Q2426			B							0.2			10				5.0		C		8.8	C		0				11	5.0				E	1.5		E	0	12			5.0	Q2408			B													1.7				C	4.5	E			2.3	Q2409	B			4.5	C	8.8	E		3.8	Q2410	B		2.3	C	4.5		E	1.6	Q2411			B		0	C	0.8		E	0	Q2412		B	0	C	8.8		E	0	Q2413		B	3.0	C	0.4		E	0	Q2414		B	0	C	5.0		E	0.3	Q2415		B	2.9	C	0.3		E	0.5	Q2416		B	0.9	C	1.5		E	0	Q2417		B	0	C	0		E	0.8	Q2418		B	0.7	C	1.5		E	0	Q2419		B	0.8	C	1.4		E	0	Q2420		B	8.2	C	5.7		E	8.8	Q2421		B	3.1	C	8.2		E	2.6	Q2422		B	5.8	C	8.8		E	5.0	Q2424		B	0.7	C	0.7		E	0	Q2426		B	0.2	C	0		E	0	Q2801		B	4.8	C	8.8		E	4.1	Q2802		B	2.6	C	4.8		E	2.0	Q2803		B	4.1	C	8.8		E	3.6	Q2804		B	0	C	4.1		E	1.9	Q2805		B	8.1	C	4.4		E	8.8	Q2806		B	4.4	C	8.1		E	3.9	Q2807		B	4.1	C	5.4		E	3.5	Q2808		B	3.5	C	8.8		E	2.8	Q2809		B	3.6	C	6.1		E	2.8	Q2810		B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																																																
16	3.0	IC2801	9		0	Q2406			B		2.1								Q2426							B			0.2				10		5.0		C	8.8		C				0	11				5.0	E		1.5	E	0			12				5.0									Q2408			B	1.7		C		4.5	E	2.3	Q2409		B		4.5			C	8.8	E	3.8	Q2410	B		2.3		C	4.5	E	1.6	Q2411	B		0		C		0.8	E	0	Q2412	B	0			C	8.8	E	0	Q2413	B	3.0			C	0.4	E	0	Q2414	B	0			C	5.0	E	0.3	Q2415	B	2.9			C	0.3	E	0.5	Q2416	B	0.9			C	1.5	E	0	Q2417	B	0			C	0	E	0.8	Q2418	B	0.7			C	1.5	E	0	Q2419	B	0.8			C	1.4	E	0	Q2420	B	8.2			C	5.7	E	8.8	Q2421	B	3.1			C	8.2	E	2.6	Q2422	B	5.8			C	8.8	E	5.0	Q2424	B	0.7			C	0.7	E	0	Q2426	B	0.2			C	0	E	0	Q2801	B	4.8			C	8.8	E	4.1	Q2802	B	2.6			C	4.8	E	2.0	Q2803	B	4.1			C	8.8	E	3.6	Q2804	B	0			C	4.1	E	1.9	Q2805	B	8.1			C	4.4	E	8.8	Q2806	B	4.4			C	8.1	E	3.9	Q2807	B	4.1			C	5.4	E	3.5	Q2808	B	3.5			C	8.8	E	2.8	Q2809	B	3.6			C	6.1	E	2.8	Q2810	B	2.8			C	8.8	E	2.2																																																																																																																																																																																																																																																																																		
IC2801	9		0		Q2406				B		2.1															Q2426			B				0.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	10		5.0						C		8.8																		C				0		11		5.0	E		1.5				E	0				12	5.0		Q2408	B	1.7			C				4.5							E				2.3	Q2409	B		4.5	C	8.8	E	3.8			Q2410	B	2.3	C		4.5	E	1.6	Q2411		B	0	C	0.8	E	0	Q2412	B		0	C	8.8	E	0	Q2413	B	3.0	C		0.4	E	0	Q2414	B	0	C	5.0		E	0.3	Q2415	B	2.9	C	0.3	E		0.5	Q2416	B	0.9	C	1.5	E	0		Q2417	B	0	C	0	E	0.8	Q2418		B	0.7	C	1.5	E	0	Q2419	B		0.8	C	1.4	E	0	Q2420	B	8.2		C	5.7	E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8	C	8.8		E	5.0	Q2424	B	0.7	C	0.7	E		0	Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1	Q2802		B	2.6	C	4.8	E	2.0	Q2803	B		4.1	C	8.8	E	3.6	Q2804	B	0		C	4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C	8.1		E	3.9	Q2807	B	4.1	C	5.4	E		3.5	Q2808	B	3.5	C	8.8	E	2.8		Q2809	B	3.6	C	6.1	E	2.8	Q2810		B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																																																																																								
	C		8.8						C		0																		11				5.0		E		1.5	E		0				12	5.0				Q2408	B			1.7	C		4.5	E		2.3		Q2409			B				4.5				C		8.8		E	3.8	Q2410	B	2.3	C			4.5	E	1.6	Q2411	B	0	C		0.8	E	0	Q2412	B	0	C		8.8	E	0	Q2413	B	3.0	C		0.4	E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C		0	E	0.8	Q2418	B	0.7		C	1.5	E	0	Q2419	B	0.8		C	1.4	E	0	Q2420	B	8.2		C	5.7	E	8.8	Q2421	B	3.1		C	8.2	E	2.6	Q2422	B	5.8		C	8.8	E	5.0	Q2424	B	0.7		C	0.7	E	0	Q2426	B	0.2		C	0	E	0	Q2801	B	4.8		C	8.8	E	4.1	Q2802	B		2.6	C	4.8	E	2.0	Q2803	B		4.1	C	8.8	E	3.6	Q2804	B		0	C	4.1	E	1.9	Q2805	B		8.1	C	4.4	E	8.8	Q2806	B		4.4	C	8.1	E	3.9	Q2807	B		4.1	C	5.4	E	3.5	Q2808	B		3.5	C	8.8	E	2.8	Q2809	B		3.6	C	6.1	E	2.8	Q2810		B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																																																																																									
	C		0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	11		5.0						E		1.5																		E				0		12		5.0	Q2408		B				1.7	C			4.5		E	2.3		Q2409	B	4.5	C	8.8		E					3.8				Q2410				B	2.3	C		4.5	E		1.6	Q2411	B	0	C	0.8	E	0		Q2412	B	0	C	8.8	E	0		Q2413	B	3.0	C	0.4	E	0		Q2414	B	0	C	5.0	E	0.3		Q2415	B	2.9	C	0.3	E	0.5		Q2416	B	0.9	C	1.5	E	0		Q2417	B	0	C	0	E	0.8		Q2418	B	0.7	C	1.5	E	0		Q2419	B	0.8	C	1.4	E	0		Q2420	B	8.2	C	5.7	E	8.8		Q2421	B	3.1	C	8.2	E	2.6		Q2422	B	5.8	C	8.8	E	5.0		Q2424	B	0.7	C	0.7	E	0		Q2426	B	0.2	C	0	E	0		Q2801	B	4.8	C	8.8	E	4.1		Q2802	B	2.6	C	4.8	E	2.0		Q2803	B	4.1	C	8.8	E	3.6		Q2804	B	0	C	4.1	E	1.9		Q2805	B	8.1	C	4.4	E	8.8		Q2806	B	4.4	C	8.1	E	3.9		Q2807	B	4.1	C	5.4	E	3.5		Q2808	B	3.5	C	8.8	E	2.8		Q2809	B	3.6	C	6.1	E	2.8		Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																																																																																																	
	E		1.5						E		0																		12				5.0		Q2408		B		1.7	C			4.5	E	2.3	Q2409		B		4.5	C			8.8	E	3.8	Q2410		B		2.3			C							4.5	E	1.6	Q2411		B	0	C	0.8		E	0	Q2412	B	0	C	8.8		E	0	Q2413	B	3.0	C	0.4		E	0	Q2414	B	0	C	5.0		E	0.3	Q2415	B	2.9	C	0.3		E	0.5	Q2416	B	0.9	C	1.5		E	0	Q2417	B	0	C	0		E	0.8	Q2418	B	0.7	C	1.5		E	0	Q2419	B	0.8	C	1.4		E	0	Q2420	B	8.2	C	5.7		E	8.8	Q2421	B	3.1	C	8.2		E	2.6	Q2422	B	5.8	C	8.8		E	5.0	Q2424	B	0.7	C	0.7		E	0	Q2426	B	0.2	C	0		E	0	Q2801	B	4.8	C	8.8		E	4.1	Q2802	B	2.6	C	4.8		E	2.0	Q2803	B	4.1	C	8.8		E	3.6	Q2804	B	0	C	4.1		E	1.9	Q2805	B	8.1	C	4.4		E	8.8	Q2806	B	4.4	C	8.1		E	3.9	Q2807	B	4.1	C	5.4		E	3.5	Q2808	B	3.5	C	8.8		E	2.8	Q2809	B	3.6	C	6.1		E	2.8	Q2810	B	2.8	C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																					
	E		0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	12		5.0						Q2408		B														1.7				C	4.5			E			2.3	Q2409		B	4.5	C	8.8	E	3.8	Q2410		B	2.3		C	4.5		E	1.6	Q2411	B			0		C			0.8				E	0		Q2412	B	0		C	8.8	E	0	Q2413	B	3.0	C		0.4	E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C		0	E	0.8	Q2418	B	0.7	C		1.5	E	0	Q2419	B	0.8	C		1.4	E	0	Q2420	B	8.2	C		5.7	E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8	C		8.8	E	5.0	Q2424	B	0.7	C		0.7	E	0	Q2426	B	0.2	C		0	E	0	Q2801	B	4.8	C		8.8	E	4.1	Q2802	B	2.6	C		4.8	E	2.0	Q2803	B	4.1	C		8.8	E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1	C		5.4	E	3.5	Q2808	B	3.5	C		8.8	E	2.8	Q2809	B	3.6	C		6.1	E	2.8	Q2810	B	2.8	C		8.8	E	2.2																																																																																																																																																																																																																																																																																																																																																	
	Q2408		B								1.7									C					4.5			E	2.3	Q2409			B	4.5		C			8.8	E	3.8	Q2410	B	2.3		C	4.5	E		1.6	Q2411		B	0		C	0.8		E		0			Q2412		B		0	C			8.8	E	0	Q2413	B	3.0	C		0.4	E	0	Q2414	B	0	C		5.0	E	0.3	Q2415	B	2.9	C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E	0	Q2417	B	0	C		0	E	0.8	Q2418	B	0.7	C		1.5	E	0	Q2419	B	0.8	C		1.4	E	0	Q2420	B	8.2	C		5.7	E	8.8	Q2421	B	3.1	C		8.2	E	2.6	Q2422	B	5.8	C		8.8	E	5.0	Q2424	B	0.7	C		0.7	E	0	Q2426	B	0.2	C		0	E	0	Q2801	B	4.8	C		8.8	E	4.1	Q2802	B	2.6	C		4.8	E	2.0	Q2803	B	4.1	C		8.8	E	3.6	Q2804	B	0	C		4.1	E	1.9	Q2805	B	8.1	C		4.4	E	8.8	Q2806	B	4.4	C		8.1	E	3.9	Q2807	B	4.1	C		5.4	E	3.5	Q2808	B	3.5	C		8.8	E	2.8	Q2809	B	3.6	C		6.1	E	2.8	Q2810	B	2.8	C		8.8	E	2.2																																																																																																																																																																																																																																																																																																																																																					
			C								4.5							E		2.3				Q2409	B			4.5	C		8.8		E	3.8		Q2410			B	2.3	C		4.5	E		1.6	Q2411	B		0			C	0.8		E	0		Q2412		B		0			C		8.8	E			0	Q2413	B		3.0	C	0.4		E	0	Q2414		B	0	C		5.0	E	0.3		Q2415	B	2.9		C	0.3	E		0.5	Q2416	B		0.9	C	1.5		E	0	Q2417		B	0	C		0	E	0.8		Q2418	B	0.7		C	1.5	E		0	Q2419	B		0.8	C	1.4		E	0	Q2420		B	8.2	C		5.7	E	8.8		Q2421	B	3.1		C	8.2	E		2.6	Q2422	B		5.8	C	8.8		E	5.0	Q2424		B	0.7	C		0.7	E	0		Q2426	B	0.2		C	0	E		0	Q2801	B		4.8	C	8.8		E	4.1	Q2802		B	2.6	C		4.8	E	2.0		Q2803	B	4.1		C	8.8	E		3.6	Q2804	B		0	C	4.1		E	1.9	Q2805		B	8.1	C		4.4	E	8.8		Q2806	B	4.4		C	8.1	E		3.9	Q2807	B		4.1	C	5.4		E	3.5	Q2808	B	3.5	C	8.8	E	2.8	Q2809	B	3.6	C	6.1	E	2.8	Q2810	B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																																																																																																	
			E								2.3				Q2409			B		4.5		C			8.8			E	3.8		Q2410	B	2.3	C			4.5		E	1.6	Q2411		B	0	C	0.8		E		0			Q2412	B	0	C	8.8				E		0			Q2413	B	3.0	C		0.4	E		0		Q2414	B	0	C	5.0	E			0.3	Q2415	B	2.9	C	0.3	E			0.5	Q2416	B	0.9	C	1.5		E		0	Q2417	B	0	C		0	E		0.8	Q2418	B	0.7		C	1.5	E	0		Q2419	B		0.8	C	1.4	E	0		Q2420		B	8.2	C	5.7	E	8.8			Q2421	B	3.1	C	8.2	E	2.6			Q2422	B	5.8	C	8.8	E		5.0		Q2424	B	0.7	C	0.7		E	0		Q2426	B	0.2	C		0	E	0	Q2801		B	4.8		C	8.8	E	4.1	Q2802		B		2.6	C	4.8	E	2.0	Q2803			B	4.1	C	8.8	E	3.6	Q2804			B	0	C	4.1	E	1.9		Q2805		B	8.1	C	4.4	E		8.8	Q2806		B	4.4	C	8.1		E	3.9	Q2807	B		4.1	C		5.4	E	3.5	Q2808	B		3.5		C	8.8	E	2.8	Q2809	B		3.6	C	6.1	E	2.8	Q2810		B	2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																																																																																																								
			Q2409								B		4.5				C	8.8		E		3.8			Q2410		B	2.3	C	4.5		E	1.6	Q2411			B		0	C		0.8	E	0	Q2412	B		0		C	8.8			E	0	Q2413	B				3.0	C	0.4	E			0	Q2414	B		0	C		5.0	E		0.3	Q2415	B	2.9	C		0.3	E		0.5	Q2416	B	0.9	C	1.5		E		0	Q2417	B	0	C	0		E		0.8	Q2418	B	0.7	C	1.5		E		0	Q2419	B	0.8	C	1.4	E			0	Q2420	B	8.2	C	5.7	E			8.8	Q2421	B	3.1	C	8.2	E		2.6		Q2422	B	5.8	C	8.8	E	5.0			Q2424	B	0.7	C	0.7	E	0			Q2426	B	0.2	C	0	E	0			Q2801	B	4.8	C	8.8	E	4.1			Q2802	B	2.6	C	4.8	E	2.0			Q2803	B	4.1	C	8.8	E	3.6			Q2804	B	0	C	4.1	E	1.9		Q2805		B	8.1	C	4.4	E	8.8	Q2806			B	4.4	C	8.1	E	3.9	Q2807			B	4.1	C	5.4	E	3.5	Q2808		B		3.5	C	8.8	E	2.8	Q2809		B		3.6	C	6.1	E	2.8	Q2810		B		2.8	C	8.8	E	2.2																																																																																																																																																																																																																																																																																																																																																
										C	8.8		E	3.8			Q2410	B		2.3	C	4.5		E			1.6	Q2411	B	0		C	0.8			E	0		Q2412	B		0	C	8.8		E	0	Q2413		B	3.0			C	0.4		E		0	Q2414	B	0	C	5.0			E		0.3		Q2415	B	2.9	C	0.3		E		0.5	Q2416	B	0.9	C	1.5		E		0	Q2417	B	0	C	0		E		0.8	Q2418	B	0.7	C	1.5		E		0	Q2419	B	0.8	C	1.4		E		0	Q2420	B	8.2	C	5.7		E		8.8	Q2421	B	3.1	C	8.2		E		2.6	Q2422	B	5.8	C	8.8	E			5.0	Q2424	B	0.7	C	0.7	E			0	Q2426	B	0.2	C	0	E			0	Q2801	B	4.8	C	8.8	E			4.1	Q2802	B	2.6	C	4.8		E		2.0	Q2803	B	4.1	C	8.8		E		3.6	Q2804	B	0	C	4.1		E		1.9	Q2805	B	8.1	C	4.4			E	8.8	Q2806	B	4.4	C	8.1			E	3.9	Q2807	B	4.1	C	5.4			E	3.5	Q2808	B	3.5	C	8.8			E	2.8	Q2809	B	3.6	C	6.1			E	2.8	Q2810	B	2.8	C	8.8			E	2.2																																																																																																																																																																																																																																																																																																																																																					
								E		3.8	Q2410	B	2.3	C	4.5			E		1.6	Q2411	B	0	C			0.8		E	0	Q2412	B	0			C	8.8			E	0	Q2413	B	3.0		C	0.4			E	0		Q2414	B	0		C		5.0		E	0.3	Q2415	B	2.9	C	0.3		E			0.5	Q2416	B	0.9	C	1.5		E		0	Q2417	B	0	C	0		E		0.8	Q2418	B	0.7	C	1.5		E		0	Q2419	B	0.8	C	1.4		E		0	Q2420	B	8.2	C	5.7		E		8.8	Q2421	B	3.1	C	8.2		E		2.6	Q2422	B	5.8	C	8.8		E		5.0	Q2424	B	0.7	C	0.7		E		0	Q2426	B	0.2	C	0		E		0	Q2801	B	4.8	C	8.8		E		4.1	Q2802	B	2.6	C	4.8		E		2.0	Q2803	B	4.1	C	8.8		E		3.6	Q2804	B	0	C	4.1		E		1.9	Q2805	B	8.1	C	4.4		E		8.8	Q2806	B	4.4	C		8.1	E		3.9	Q2807	B	4.1		C	5.4	E		3.5	Q2808	B	3.5		C	8.8	E		2.8	Q2809	B	3.6		C	6.1	E		2.8	Q2810	B	2.8		C	8.8	E		2.2																																																																																																																																																																																																																																																																																																																																																												
			Q2410	B			2.3	C		4.5		E	1.6	Q2411	B	0		C		0.8		E	0	Q2412	B		0		C	8.8		E	0	Q2413		B	3.0			C	0.4		E	0	Q2414	B	0			C	5.0			E	0.3	Q2415	B	2.9	C		0.3	E		0.5	Q2416	B	0.9	C	1.5			E		0	Q2417	B	0	C	0		E		0.8	Q2418	B	0.7	C	1.5		E		0	Q2419	B	0.8	C	1.4		E		0	Q2420	B	8.2	C	5.7		E		8.8	Q2421	B	3.1	C	8.2		E		2.6	Q2422	B	5.8	C	8.8		E		5.0	Q2424	B	0.7	C	0.7		E		0	Q2426	B	0.2	C	0		E		0	Q2801	B	4.8	C	8.8		E		4.1	Q2802	B	2.6	C	4.8		E		2.0	Q2803	B	4.1	C	8.8		E		3.6	Q2804	B	0	C	4.1		E		1.9	Q2805	B	8.1	C	4.4		E		8.8	Q2806	B	4.4	C	8.1		E		3.9	Q2807	B	4.1	C	5.4		E		3.5	Q2808	B	3.5	C	8.8		E		2.8	Q2809	B	3.6	C	6.1		E		2.8	Q2810	B	2.8	C	8.8		E		2.2																																																																																																																																																																																																																																																																																																																																																																			
		C		4.5		E	1.6	Q2411		B		0	C		0.8	E	0	Q2412	B	0		C	8.8		E		0	Q2413	B	3.0		C	0.4			E	0		Q2414	B	0		C	5.0		E	0.3	Q2415		B	2.9			C	0.3		E	0.5	Q2416	B	0.9	C		1.5		E	0	Q2417	B	0	C	0		E		0.8	Q2418	B	0.7	C	1.5		E		0	Q2419	B	0.8	C	1.4		E		0	Q2420	B	8.2	C	5.7		E		8.8	Q2421	B	3.1	C	8.2		E		2.6	Q2422	B	5.8	C	8.8		E		5.0	Q2424	B	0.7	C	0.7		E		0	Q2426	B	0.2	C	0		E		0	Q2801	B	4.8	C	8.8		E		4.1	Q2802	B	2.6	C	4.8		E		2.0	Q2803	B	4.1	C	8.8		E		3.6	Q2804	B	0	C	4.1		E		1.9	Q2805	B	8.1	C	4.4		E		8.8	Q2806	B	4.4	C	8.1		E		3.9	Q2807	B	4.1	C	5.4		E		3.5	Q2808	B	3.5	C	8.8		E		2.8	Q2809	B	3.6	C	6.1		E		2.8	Q2810	B	2.8	C	8.8		E		2.2																																																																																																																																																																																																																																																																																																																																																																										
E		1.6		Q2411	B	0	C			0.8	E	0	Q2412		B	0	C		8.8	E	0	Q2413	B		3.0	C	0.4		E	0	Q2414	B	0			C	5.0			E	0.3	Q2415	B	2.9		C	0.3			E	0.5		Q2416	B	0.9		C	1.5		E	0	Q2417	B	0		C	0		E	0.8	Q2418	B	0.7	C		1.5		E	0	Q2419	B	0.8	C		1.4		E	0	Q2420	B	8.2	C		5.7		E	8.8	Q2421	B	3.1	C		8.2		E	2.6	Q2422	B	5.8	C		8.8		E	5.0	Q2424	B	0.7	C		0.7		E	0	Q2426	B	0.2	C		0		E	0	Q2801	B	4.8	C		8.8		E	4.1	Q2802	B	2.6	C		4.8		E	2.0	Q2803	B	4.1	C		8.8		E	3.6	Q2804	B	0	C		4.1		E	1.9	Q2805	B	8.1	C		4.4		E	8.8	Q2806	B	4.4	C		8.1		E	3.9	Q2807	B	4.1	C		5.4		E	3.5	Q2808	B	3.5	C		8.8		E	2.8	Q2809	B	3.6	C		6.1		E	2.8	Q2810	B	2.8	C		8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																
Q2411		B	0		C	0.8	E			0	Q2412	B		0	C	8.8	E		0	Q2413	B		3.0	C	0.4	E	0		Q2414	B		0	C	5.0		E	0.3			Q2415	B		2.9	C	0.3	E	0.5			Q2416	B	0.9		C	1.5	E	0	Q2417		B	0		C	0	E	0.8	Q2418		B	0.7		C	1.5	E	0	Q2419		B	0.8		C	1.4	E	0	Q2420		B	8.2		C	5.7	E	8.8	Q2421		B	3.1		C	8.2	E	2.6	Q2422		B	5.8		C	8.8	E	5.0	Q2424		B	0.7		C	0.7	E	0	Q2426		B	0.2		C	0	E	0	Q2801		B	4.8		C	8.8	E	4.1	Q2802		B	2.6		C	4.8	E	2.0	Q2803		B	4.1		C	8.8	E	3.6	Q2804		B	0		C	4.1	E	1.9	Q2805		B	8.1		C	4.4	E	8.8	Q2806		B	4.4		C	8.1	E	3.9	Q2807		B	4.1		C	5.4	E	3.5	Q2808		B	3.5		C	8.8	E	2.8	Q2809		B	3.6		C	6.1	E	2.8	Q2810		B	2.8		C	8.8	E	2.2																																																																																																																																																																																																																																																																																																																																																																																				
		C	0.8		E	0	Q2412	B		0		C		8.8	E	0	Q2413	B	3.0		C		0.4	E	0	Q2414	B	0		C		5.0	E	0.3		Q2415	B		2.9		C		0.3	E	0.5	Q2416	B	0.9	C		1.5	E		0	Q2417	B	0		C	0	E		0.8	Q2418	B	0.7		C	1.5	E		0	Q2419	B	0.8		C	1.4	E		0	Q2420	B	8.2		C	5.7	E		8.8	Q2421	B	3.1		C	8.2	E		2.6	Q2422	B	5.8		C	8.8	E		5.0	Q2424	B	0.7		C	0.7	E		0	Q2426	B	0.2		C	0	E		0	Q2801	B	4.8		C	8.8	E		4.1	Q2802	B	2.6		C	4.8	E		2.0	Q2803	B	4.1		C	8.8	E		3.6	Q2804	B	0		C	4.1	E		1.9	Q2805	B	8.1		C	4.4	E		8.8	Q2806	B	4.4		C	8.1	E		3.9	Q2807	B	4.1		C	5.4	E		3.5	Q2808	B	3.5		C	8.8	E		2.8	Q2809	B	3.6		C	6.1	E		2.8	Q2810	B	2.8		C	8.8	E		2.2																																																																																																																																																																																																																																																																																																																																																																																							
		E	0	Q2412	B	0		C		8.8		E	0	Q2413	B	3.0		C	0.4		E	0	Q2414	B	0		C	5.0		E	0.3	Q2415	B	2.9			C		0.3		E	0.5	Q2416	B	0.9		C	1.5	E		0	Q2417	B	0		C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																										
Q2412		B	0		C	8.8		E		0	Q2413	B	3.0		C	0.4		E	0	Q2414	B	0		C	5.0		E	0.3	Q2415	B	2.9		C	0.3			E	0.5	Q2416	B	0.9	C		1.5	E		0	Q2417	B	0	C		0	E		0.8	Q2418	B	0.7	C		1.5	E		0	Q2419	B	0.8	C		1.4	E		0	Q2420	B	8.2	C		5.7	E		8.8	Q2421	B	3.1	C		8.2	E		2.6	Q2422	B	5.8	C		8.8	E		5.0	Q2424	B	0.7	C		0.7	E		0	Q2426	B	0.2	C		0	E		0	Q2801	B	4.8	C		8.8	E		4.1	Q2802	B	2.6	C		4.8	E		2.0	Q2803	B	4.1	C		8.8	E		3.6	Q2804	B	0	C		4.1	E		1.9	Q2805	B	8.1	C		4.4	E		8.8	Q2806	B	4.4	C		8.1	E		3.9	Q2807	B	4.1	C		5.4	E		3.5	Q2808	B	3.5	C		8.8	E		2.8	Q2809	B	3.6	C		6.1	E		2.8	Q2810	B	2.8	C		8.8	E		2.2																																																																																																																																																																																																																																																																																																																																																																																														
		C	8.8		E	0	Q2413	B		3.0		C	0.4		E	0	Q2414	B	0		C	5.0		E	0.3	Q2415	B	2.9		C	0.3		E	0.5	Q2416	B	0.9	C		1.5	E	0		Q2417	B	0	C		0	E	0.8		Q2418	B	0.7	C		1.5	E	0		Q2419	B	0.8	C		1.4	E	0		Q2420	B	8.2	C		5.7	E	8.8		Q2421	B	3.1	C		8.2	E	2.6		Q2422	B	5.8	C		8.8	E	5.0		Q2424	B	0.7	C		0.7	E	0		Q2426	B	0.2	C		0	E	0		Q2801	B	4.8	C		8.8	E	4.1		Q2802	B	2.6	C		4.8	E	2.0		Q2803	B	4.1	C		8.8	E	3.6		Q2804	B	0	C		4.1	E	1.9		Q2805	B	8.1	C		4.4	E	8.8		Q2806	B	4.4	C		8.1	E	3.9		Q2807	B	4.1	C		5.4	E	3.5		Q2808	B	3.5	C		8.8	E	2.8		Q2809	B	3.6	C		6.1	E	2.8		Q2810	B	2.8	C		8.8	E	2.2																																																																																																																																																																																																																																																																																																																																																																																																			
		E	0	Q2413	B	3.0		C		0.4		E	0	Q2414	B	0		C	5.0		E	0.3	Q2415	B	2.9		C	0.3		E	0.5	Q2416	B	0.9		C	1.5	E		0	Q2417	B	0		C	0	E		0.8	Q2418	B	0.7		C	1.5	E		0	Q2419	B	0.8		C	1.4	E		0	Q2420	B	8.2		C	5.7	E		8.8	Q2421	B	3.1		C	8.2	E		2.6	Q2422	B	5.8		C	8.8	E		5.0	Q2424	B	0.7		C	0.7	E		0	Q2426	B	0.2		C	0	E		0	Q2801	B	4.8		C	8.8	E		4.1	Q2802	B	2.6		C	4.8	E		2.0	Q2803	B	4.1		C	8.8	E		3.6	Q2804	B	0		C	4.1	E		1.9	Q2805	B	8.1		C	4.4	E		8.8	Q2806	B	4.4		C	8.1	E		3.9	Q2807	B	4.1		C	5.4	E		3.5	Q2808	B	3.5		C	8.8	E		2.8	Q2809	B	3.6		C	6.1	E		2.8	Q2810	B	2.8		C	8.8	E		2.2																																																																																																																																																																																																																																																																																																																																																																																																					
Q2413		B	3.0		C	0.4		E	0	Q2414	B	0	C		5.0	E		0.3	Q2415	B	2.9	C		0.3	E		0.5	Q2416	B	0.9	C		1.5	E		0	Q2417	B	0	C		0	E		0.8	Q2418	B	0.7	C		1.5	E		0	Q2419	B	0.8	C		1.4	E		0	Q2420	B	8.2	C		5.7	E		8.8	Q2421	B	3.1	C		8.2	E		2.6	Q2422	B	5.8	C		8.8	E		5.0	Q2424	B	0.7	C		0.7	E		0	Q2426	B	0.2	C		0	E		0	Q2801	B	4.8	C		8.8	E		4.1	Q2802	B	2.6	C		4.8	E		2.0	Q2803	B	4.1	C		8.8	E		3.6	Q2804	B	0	C		4.1	E		1.9	Q2805	B	8.1	C		4.4	E		8.8	Q2806	B	4.4	C		8.1	E		3.9	Q2807	B	4.1	C		5.4	E		3.5	Q2808	B	3.5	C		8.8	E		2.8	Q2809	B	3.6	C		6.1	E		2.8	Q2810	B	2.8	C		8.8	E		2.2																																																																																																																																																																																																																																																																																																																																																																																																									
	C	0.4	E		0	Q2414	B	0	C		5.0	E	0.3		Q2415	B	2.9	C		0.3	E	0.5		Q2416	B	0.9	C		1.5	E	0		Q2417	B	0	C		0	E	0.8		Q2418	B	0.7	C		1.5	E	0		Q2419	B	0.8	C		1.4	E	0		Q2420	B	8.2	C		5.7	E	8.8		Q2421	B	3.1	C		8.2	E	2.6		Q2422	B	5.8	C		8.8	E	5.0		Q2424	B	0.7	C		0.7	E	0		Q2426	B	0.2	C		0	E	0		Q2801	B	4.8	C		8.8	E	4.1		Q2802	B	2.6	C		4.8	E	2.0		Q2803	B	4.1	C		8.8	E	3.6		Q2804	B	0	C		4.1	E	1.9		Q2805	B	8.1	C		4.4	E	8.8		Q2806	B	4.4	C		8.1	E	3.9		Q2807	B	4.1	C		5.4	E	3.5		Q2808	B	3.5	C		8.8	E	2.8		Q2809	B	3.6	C		6.1	E	2.8		Q2810	B	2.8	C		8.8	E	2.2																																																																																																																																																																																																																																																																																																																																																																																																														
	E	0	Q2414	B	0		C	5.0	E		0.3	Q2415	B	2.9		C	0.3	E		0.5	Q2416	B	0.9		C	1.5	E		0	Q2417	B	0		C	0	E		0.8	Q2418	B	0.7		C	1.5	E		0	Q2419	B	0.8		C	1.4	E		0	Q2420	B	8.2		C	5.7	E		8.8	Q2421	B	3.1		C	8.2	E		2.6	Q2422	B	5.8		C	8.8	E		5.0	Q2424	B	0.7		C	0.7	E		0	Q2426	B	0.2		C	0	E		0	Q2801	B	4.8		C	8.8	E		4.1	Q2802	B	2.6		C	4.8	E		2.0	Q2803	B	4.1		C	8.8	E		3.6	Q2804	B	0		C	4.1	E		1.9	Q2805	B	8.1		C	4.4	E		8.8	Q2806	B	4.4		C	8.1	E		3.9	Q2807	B	4.1		C	5.4	E		3.5	Q2808	B	3.5		C	8.8	E		2.8	Q2809	B	3.6		C	6.1	E		2.8	Q2810	B	2.8		C	8.8	E		2.2																																																																																																																																																																																																																																																																																																																																																																																																																
Q2414	B	0		C	5.0		E	0.3	Q2415	B	2.9		C	0.3		E	0.5	Q2416	B	0.9		C	1.5		E	0	Q2417	B	0		C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																			
	C	5.0		E	0.3	Q2415	B	2.9		C	0.3		E	0.5	Q2416	B	0.9		C	1.5		E	0	Q2417	B	0		C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																						
	E	0.3	Q2415	B	2.9		C	0.3		E	0.5	Q2416	B	0.9		C	1.5		E	0	Q2417	B	0		C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																									
Q2415	B	2.9		C	0.3		E	0.5	Q2416	B	0.9		C	1.5		E	0	Q2417	B	0		C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																												
	C	0.3		E	0.5	Q2416	B	0.9		C	1.5		E	0	Q2417	B	0		C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																															
	E	0.5	Q2416	B	0.9		C	1.5		E	0	Q2417	B	0		C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																		
Q2416	B	0.9		C	1.5		E	0	Q2417	B	0		C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																					
	C	1.5		E	0	Q2417	B	0		C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																								
	E	0	Q2417	B	0		C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																											
Q2417	B	0		C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																														
	C	0		E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	E	0.8	Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Q2418	B	0.7		C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	C	1.5		E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	E	0	Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Q2419	B	0.8		C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	C	1.4		E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	E	0	Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Q2420	B	8.2		C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	C	5.7		E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	E	8.8	Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Q2421	B	3.1		C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	C	8.2		E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	E	2.6	Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Q2422	B	5.8		C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	C	8.8		E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	E	5.0	Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Q2424	B	0.7		C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	C	0.7		E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	E	0	Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Q2426	B	0.2		C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	C	0		E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	E	0	Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Q2801	B	4.8		C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	C	8.8		E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	E	4.1	Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Q2802	B	2.6		C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	C	4.8		E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	E	2.0	Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Q2803	B	4.1		C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	C	8.8		E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	E	3.6	Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Q2804	B	0		C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	C	4.1		E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	E	1.9	Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Q2805	B	8.1		C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	C	4.4		E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	E	8.8	Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Q2806	B	4.4		C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	C	8.1		E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	E	3.9	Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Q2807	B	4.1		C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	C	5.4		E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	E	3.5	Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Q2808	B	3.5		C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	C	8.8		E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	E	2.8	Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Q2809	B	3.6		C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	C	6.1		E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	E	2.8	Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Q2810	B	2.8		C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	C	8.8		E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	E	2.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

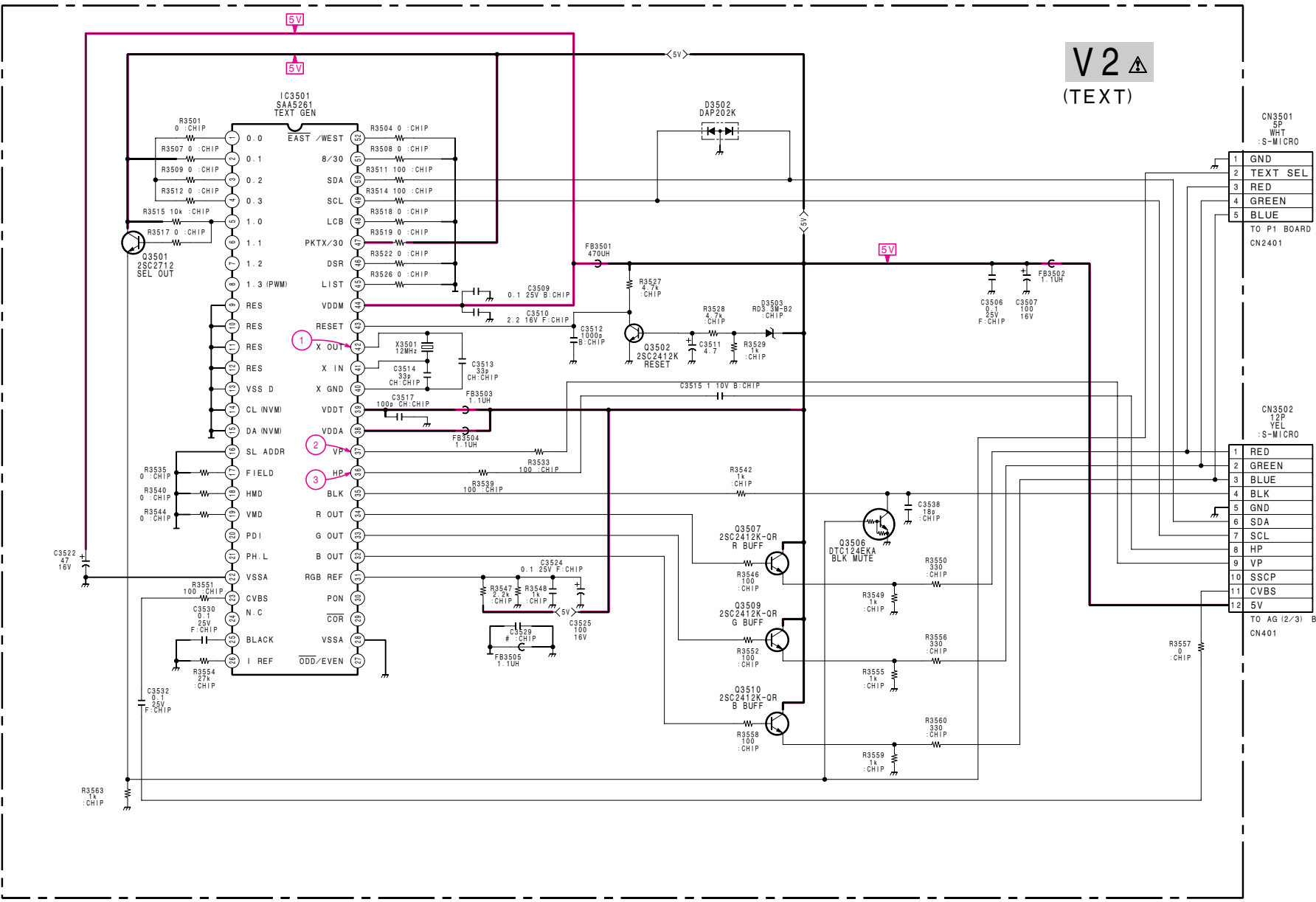
• V2 BOARD WAVEFORMS



• V2 BOARD VOLTAGE LIST

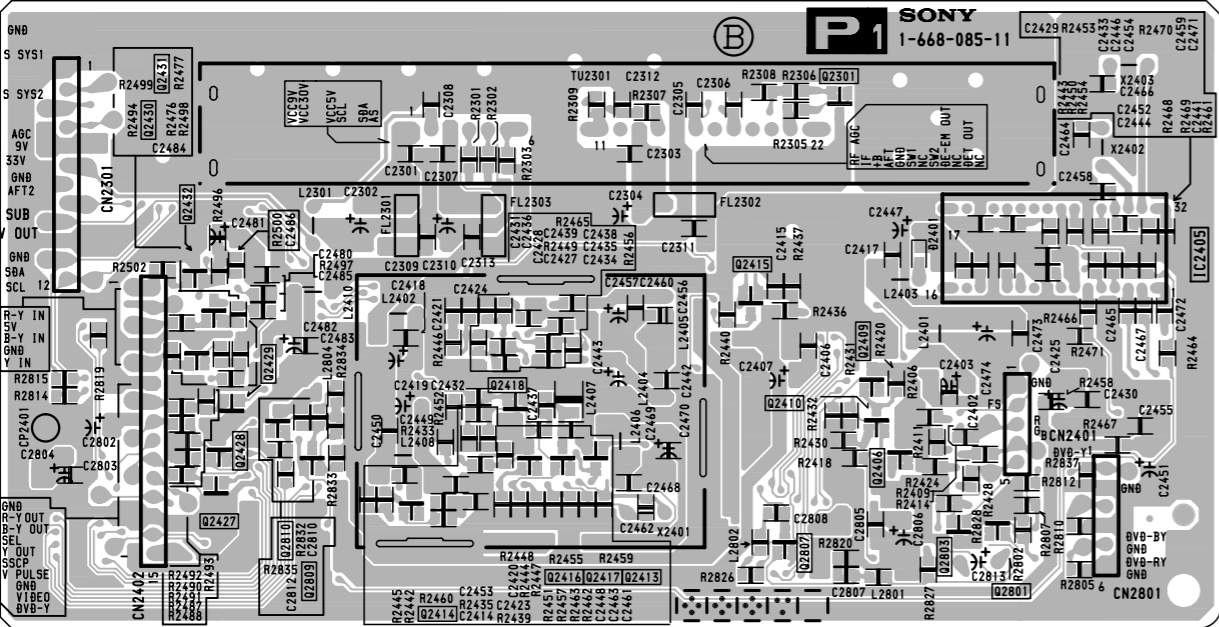
Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]																																																																										
IC3501	1	0	Q3506	B	0	Q3507	B	0																																																																										
	2	5.1		C	0		C	0	3	0	4	2.5	4	2.5	5	0	43	0	43	0	23	2.3	44	5.1	44	5.1	25	2.1	47	5.2	47	5.2	26	2.6	49	4.8	49	4.8	30	1.7	50	4.9	50	4.9	32	0	Q3510	B	0	Q3509	B	0	33	0	C	5.2	C	5.2	34	0	E	0	E	0	35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2
	C	0		C	0		3	0	4	2.5	4	2.5	5	0	43	0	43	0	23	2.3	44	5.1	44	5.1	25	2.1	47	5.2	47	5.2	26	2.6	49	4.8	49	4.8	30	1.7	50	4.9	50	4.9	32	0	Q3510	B		0	Q3509		B	0	33	0	C	5.2	C	5.2	34	0	E	0	E	0	35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2
	C	0																																																																																
	3	0		4	2.5		4	2.5	5	0	43	0	43	0	23	2.3	44	5.1	44	5.1	25	2.1	47	5.2	47	5.2	26	2.6	49	4.8	49	4.8	30	1.7	50	4.9	50	4.9	32	0	Q3510	B	0	Q3509		B		0			33	0	C	5.2	C	5.2	34	0	E	0	E	0	35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2		
	4	2.5		4	2.5		5	0	43	0	43	0	23	2.3	44	5.1	44	5.1	25	2.1	47	5.2	47	5.2	26	2.6	49	4.8	49	4.8	30	1.7	50	4.9	50	4.9	32	0	Q3510	B		0	Q3509			B		0			33	0	C	5.2	C	5.2	34	0	E	0	E	0	35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2		
	4	2.5																																																																																
	5	0		43	0		43	0	23	2.3	44	5.1	44	5.1	25	2.1	47	5.2	47	5.2	26	2.6	49	4.8	49	4.8	30	1.7	50	4.9	50	4.9	32	0	Q3510	B	0	Q3509		B		0				33		0			C	5.2	C	5.2	34	0	E	0	E	0	35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2				
	43	0		43	0		23	2.3	44	5.1	44	5.1	25	2.1	47	5.2	47	5.2	26	2.6	49	4.8	49	4.8	30	1.7	50	4.9	50	4.9	32	0	Q3510	B		0	Q3509			B		0				33		0			C	5.2	C	5.2	34	0	E	0	E	0	35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2				
	43	0																																																																																
	23	2.3		44	5.1		44	5.1	25	2.1	47	5.2	47	5.2	26	2.6	49	4.8	49	4.8	30	1.7	50	4.9	50	4.9	32	0	Q3510	B	0	Q3509		B		0				33		0				C		5.2			C	5.2	34	0	E	0	E	0	35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2						
	44	5.1		44	5.1		25	2.1	47	5.2	47	5.2	26	2.6	49	4.8	49	4.8	30	1.7	50	4.9	50	4.9	32	0	Q3510	B		0	Q3509			B		0				33		0				C		5.2			C	5.2	34	0	E	0	E	0	35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2						
	44	5.1																																																																																
	25	2.1		47	5.2		47	5.2	26	2.6	49	4.8	49	4.8	30	1.7	50	4.9	50	4.9	32	0	Q3510	B	0	Q3509		B		0				33		0				C		5.2				C		5.2			34	0	E	0	E	0	35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2								
	47	5.2		47	5.2		26	2.6	49	4.8	49	4.8	30	1.7	50	4.9	50	4.9	32	0	Q3510	B		0	Q3509			B		0				33		0				C		5.2				C		5.2			34	0	E	0	E	0	35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2								
	47	5.2																																																																																
26	2.6	49	4.8	49	4.8	30	1.7	50	4.9	50	4.9	32	0	Q3510	B	0	Q3509	B	0	33		0		C				5.2		C				5.2		34				0		E				0		E			0	35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2													
49	4.8	49	4.8	30	1.7	50	4.9	50	4.9	32	0	Q3510	B		0	Q3509		B	0	33		0		C				5.2		C				5.2		34				0		E				0	E	0		35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2															
49	4.8																																																																																	
30	1.7	50	4.9	50	4.9	32	0	Q3510	B	0	Q3509		B		0			33	0	C		5.2		C				5.2		34				0		E				0		E			0	35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2																			
50	4.9	50	4.9	32	0	Q3510	B		0	Q3509			B		0			33	0	C		5.2		C				5.2		34				0		E				0	E	0		35	0	35	0	35	0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2																					
50	4.9																																																																																	
32	0	Q3510	B	0	Q3509		B		0																																																																									
33	0		C	5.2			C		5.2				34		0			E	0	E		0		35				0		35				0	35	0		36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2																																	
C	5.2		C	5.2			34		0				E		0			E	0	35		0		35				0		35			0	36	0.6	36	0.6	36	0.6	37	0.2	37	0.2	37	0.2																																					
C	5.2																																																																																	
34	0		E	0			E		0				35		0			35	0	35		0		36				0.6	36	0.6		36	0.6	37	0.2	37	0.2	37	0.2																																											
E	0		E	0			35		0				35		0			35	0	36		0.6		36			0.6	36	0.6	37	0.2	37	0.2	37	0.2																																															
E	0																																																																																	
35	0		35	0			35		0				36		0.6			36	0.6	36		0.6	37	0.2		37	0.2	37	0.2																																																					
35	0		35	0			36		0.6				36		0.6			36	0.6	37	0.2	37	0.2	37	0.2																																																									
35	0																																																																																	
36	0.6		36	0.6			36		0.6				37	0.2	37		0.2	37	0.2																																																															
36	0.6		36	0.6			37		0.2			37	0.2	37	0.2																																																																			
36	0.6																																																																																	
37	0.2		37	0.2			37	0.2																																																																										
37	0.2		37	0.2																																																																														
37	0.2																																																																																	

V2
(TEXT)



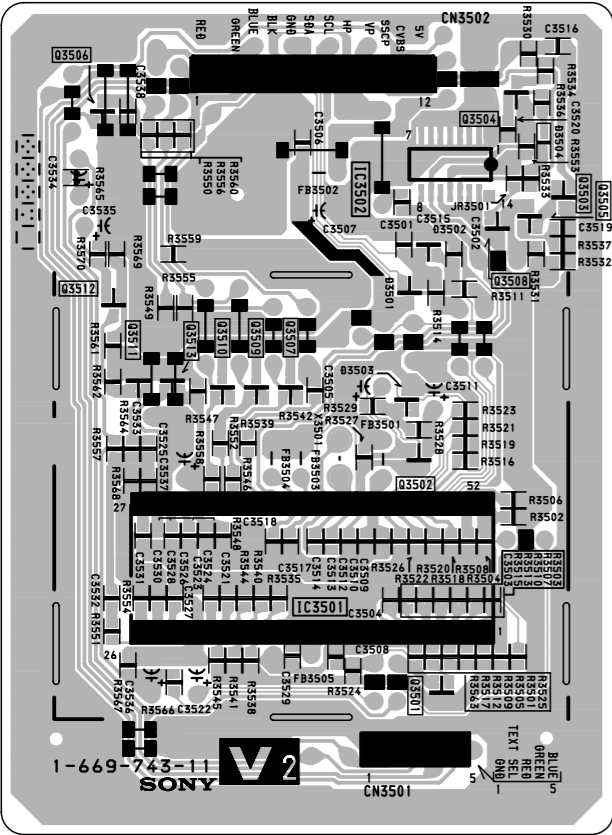
P₁ [PIP/DVD IN,
PIP TEXT] **V₂** [TEXT]

— P1 BOARD (Conductor Side) —



- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

— V2 BOARD —

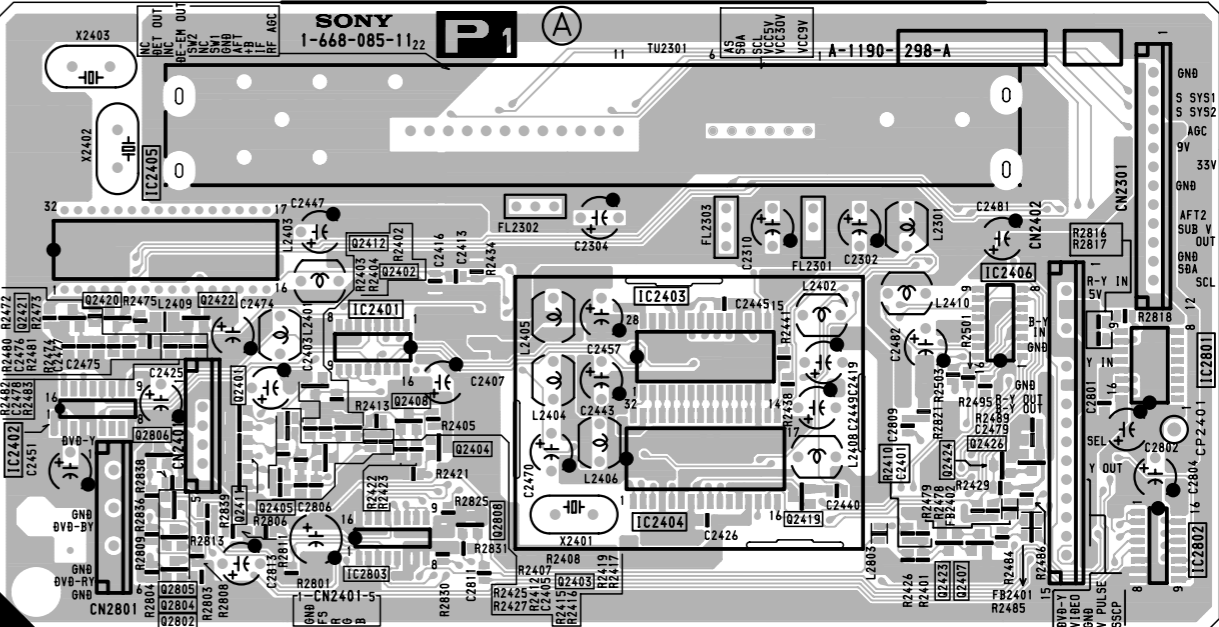


V2 BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

Ref.	*
D3502	⑩
D3503	④
Q3501, Q2502, Q3506, Q3507, Q3509, Q3510	①

※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 63)

— P1 BOARD (Component Side) —



- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

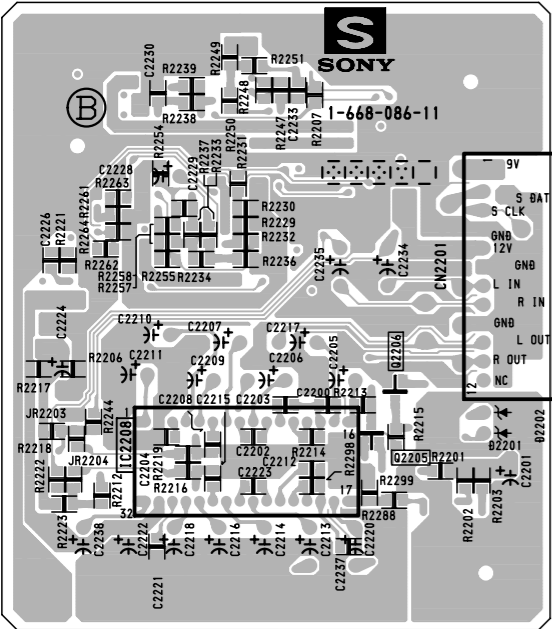
P1 BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

Ref.	*
D2401	③
Q2301, Q2406, Q2409, Q2410, Q2413-Q2418, Q2427-Q2432, Q2801, Q2803, Q2807, Q2809, Q2810	①
Q2401-Q2405, Q2407, Q2408, Q2411, Q2412, Q2419-Q2424, Q2426, Q2802, Q2804-Q2806, Q2808	②

※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 63)

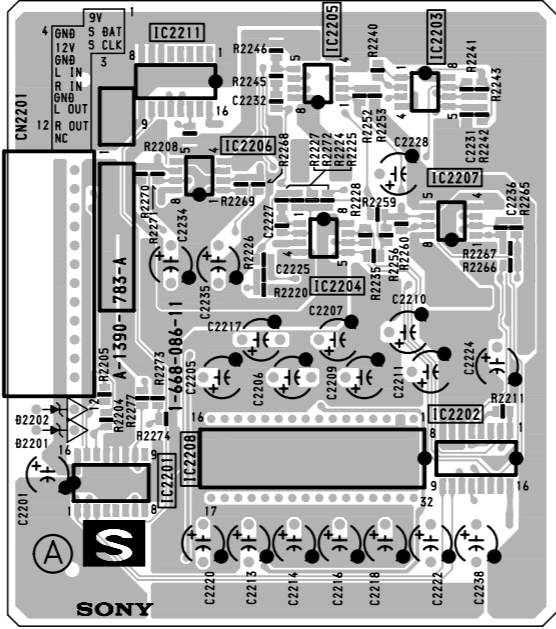
S [SURROUND] **ZG** [VM/GREEN DY]

— S BOARD (Conductor Side) —



- Pattern from the side which enables seeing.
- Pattern of the rear side.

— S BOARD (Component Side) —

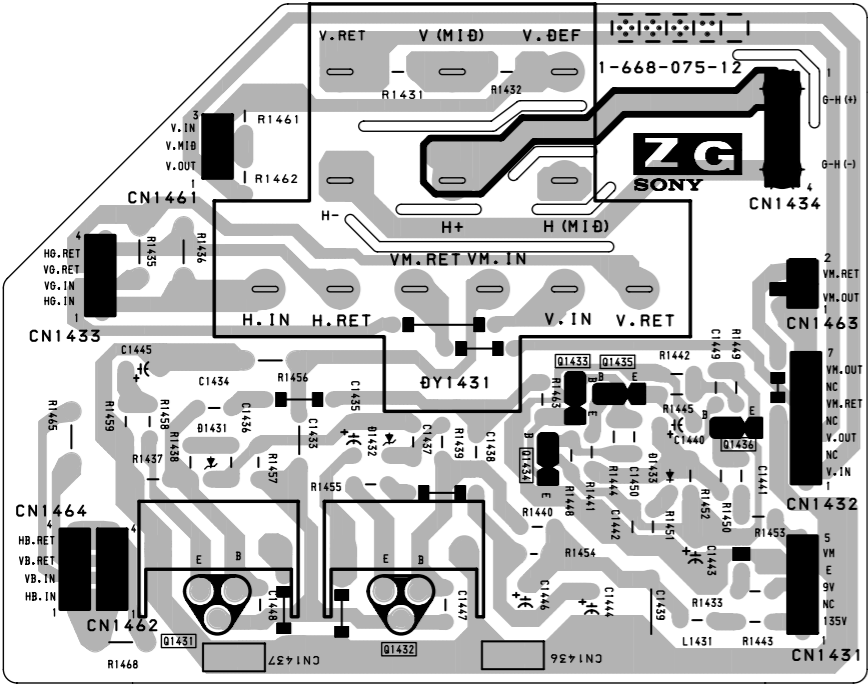


S BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

Ref.	*
Q2205, Q2206	①

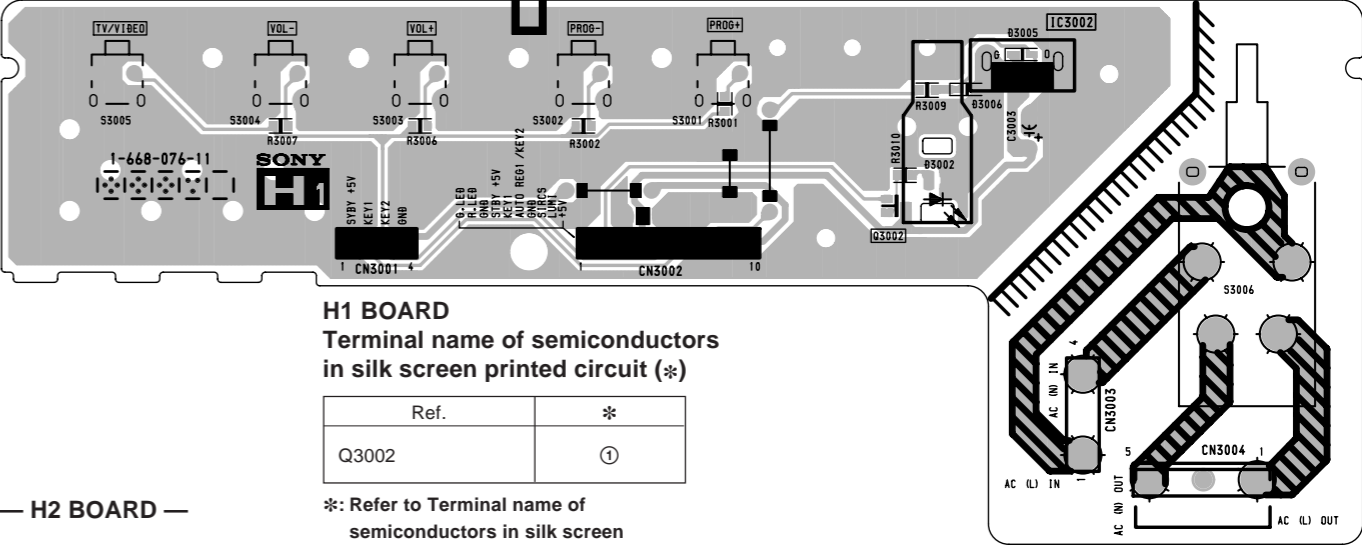
※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 63)

— ZG BOARD —



H1 [KEY, LED, AC SW] **H2** [FRONT IN, KEY] **ZR** [RED DY]

— H1 BOARD —

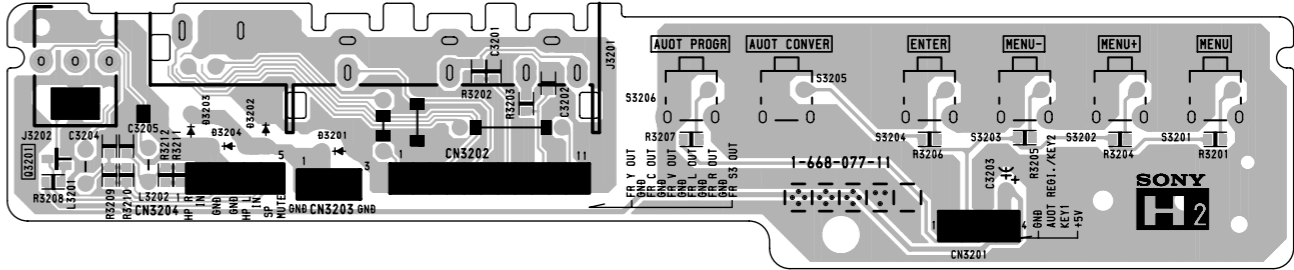


H1 BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

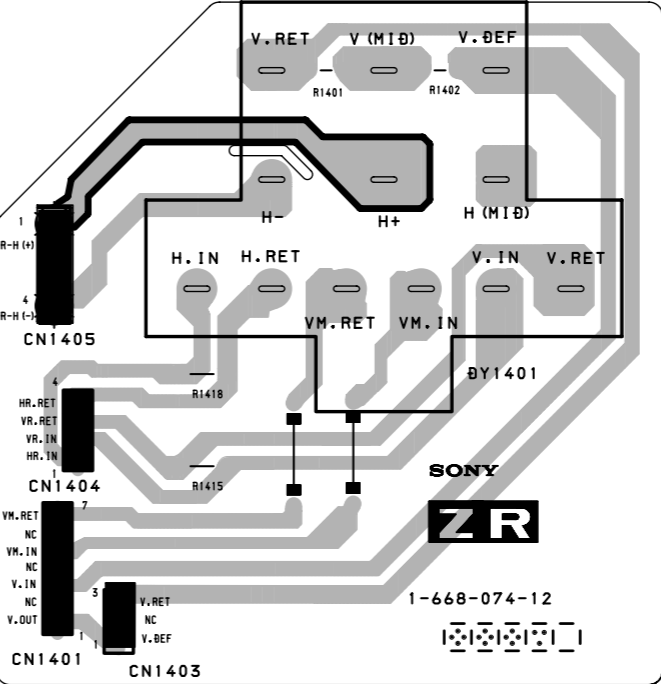
Ref.	*
Q3002	①

— H2 BOARD —

※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 63)



— ZR BOARD —



H2 BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

Ref.	*
Q3201	①

※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 63)

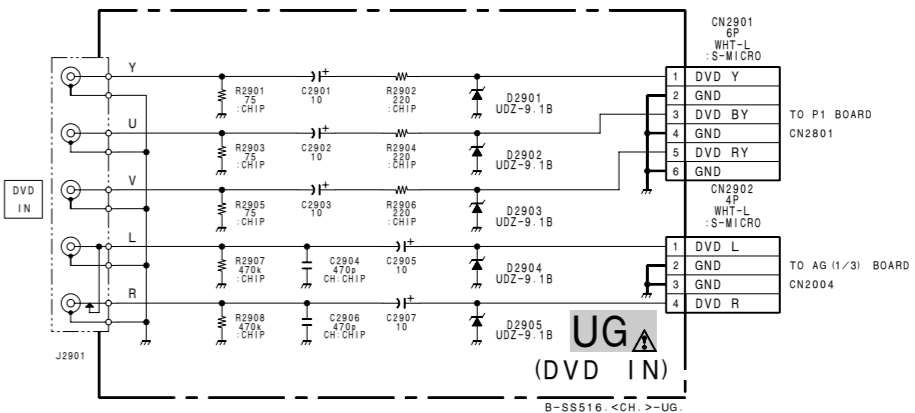
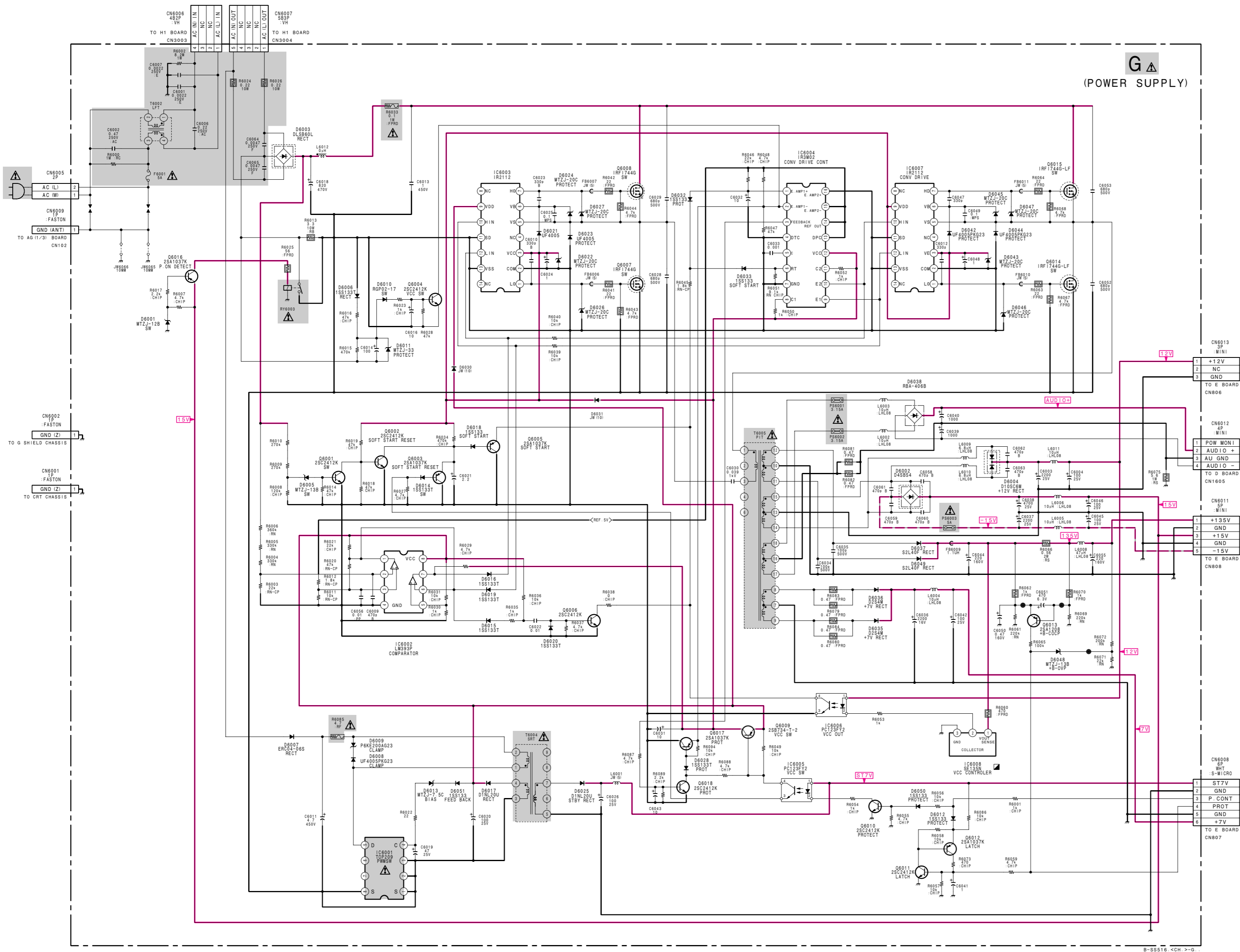
Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
Q1431	B	1.0	Q1433	B	6.1	Q1435	B	2.3
	C	70.1		E	6.4		C	6.1
	E	0.5					E	1.7
Q1432	B	138	Q1434	B	6.8	Q1436	B	2.3
	C	70.1		C	9.3		C	9.3
	E	139		E	6.4		E	1.6

 S (SURROUND)

[illegible]

← **H₁** **H₂** **S**
ZG **ZR** boards

G **UG** boards →

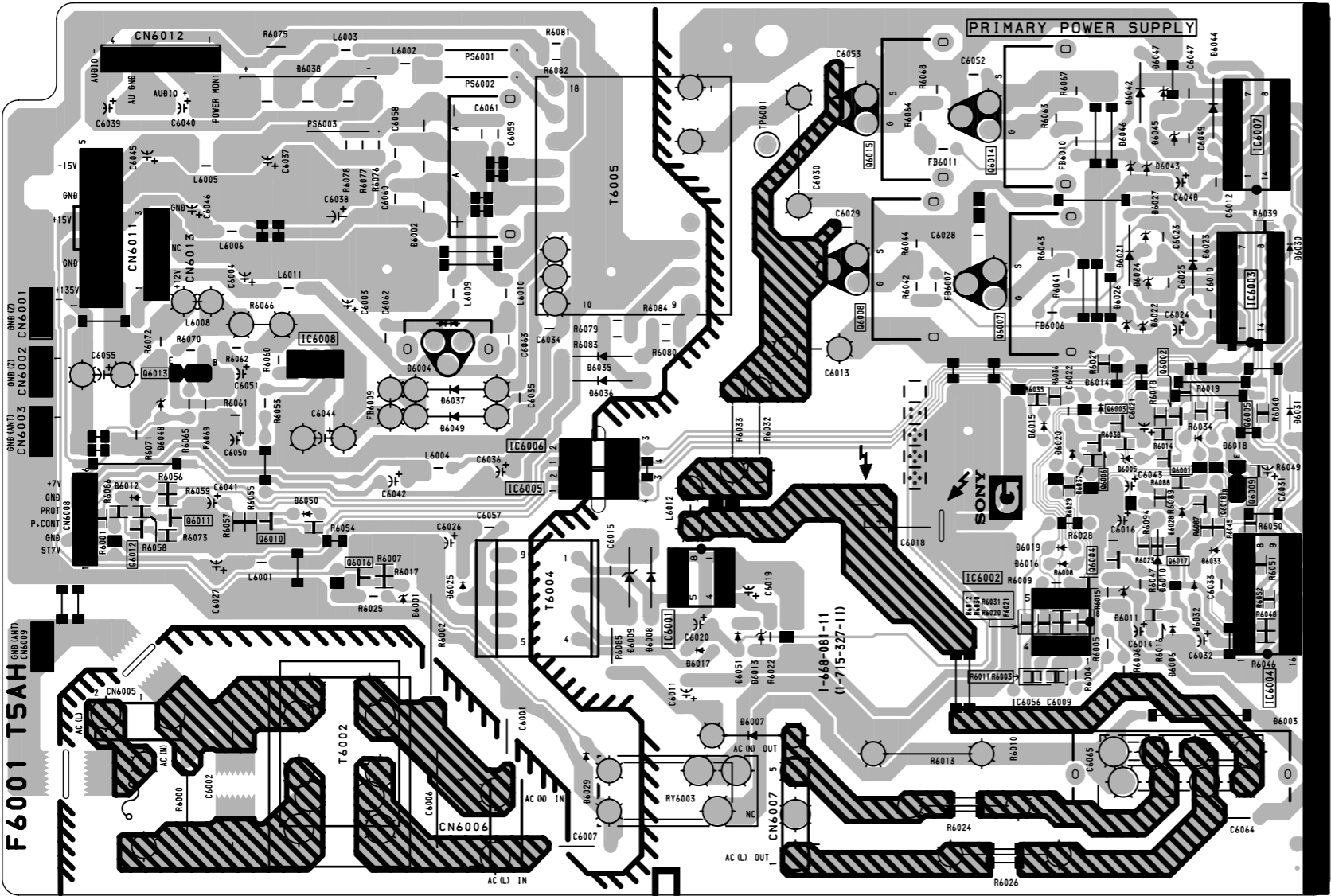


• G BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC6001	4	5.9		3	13.5	Q6007	B	14.3
	5	286		4	13.8		C	0.4
IC6002	1	0.2	IC6006	1	13.0	Q6008	B	0.4
	2	6.3		2	11.9		C	292
	3	4.4		4	3.0		E	0.4
	5	1.4	IC6007	1	6.2	Q6009	B	13.8
	7	12.1		2	0		C	14.5
	8	14.5		3	14.5		E	14.5
				5	146	Q6010	B	0.7
IC6003	1	14.4		6	159		C	0
	3	14.4		7	150			
	5	0.4		9	14.5	Q6011	B	0
	6	15.1		10	6.4		C	7.3
	7	0.4		12	5.8			
	9	14.5				Q6012	B	7.3
	10	0.5	IC6008	1	138		C	0
	12	11.6		2	11.5		E	7.2
IC6004	1	3.9	Q6001	B	0.8	Q6013	B	138
	2	4.8		C	0		C	0
	3	0				Q6014	B	16.1
	5	1.7	Q6002	B	0		C	147
	6	3.9		C	13.8			
	8	14.1	Q6003	B	*	Q6015	B	150
	9	5.3		E	13.8		C	147
	10	6.4	Q6004	B	0	Q6016	B	150
	11	14.4		C	4.8		C	292
	12	14.5	Q6005	B	5.1	Q6017	B	*
	13	5.3		E	3.0		E	4.8
	14	5.3	Q6006	B	0	Q6018	B	0
	15	5.3		C	3.1		C	13.8
IC6005	1	7.3						
	2	6.1						

G [POWER SUPPLY] **UG** [DVD IN]

— G BOARD —

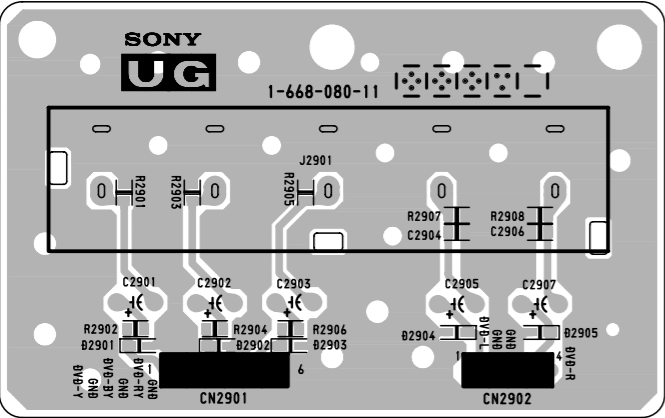


G BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

Ref.	*
Q6001-Q6006, Q6010-Q6012, Q6016-Q6018	①

※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 63)

— UG BOARD —



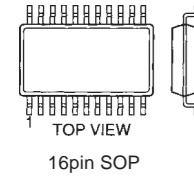
UG BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

Ref.	*
D2901-D2905	③

※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 63)

6-5. SEMICONDUCTORS

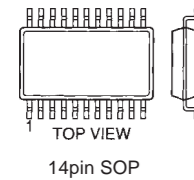
BA7606F
CXA1315M
CXA1875AM-T4
HEF4053BT
TDA4665T-T



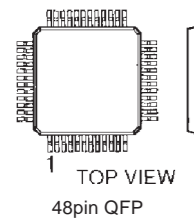
CA0007AD
IR2112
NJM2058D
μPC339C



CA0007AM



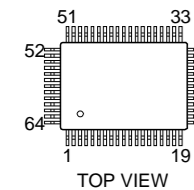
CXA1855Q
MC141627FT



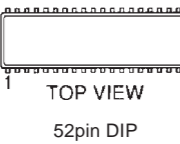
CXA2050S



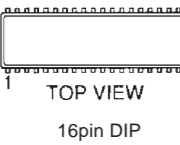
CXP85452-080Q-TL
CXP85452-092Q-TL



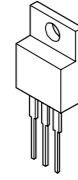
CXP86213-002S
SAA5261



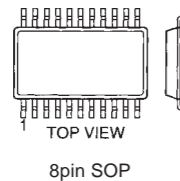
IR3M02
IR3M02A



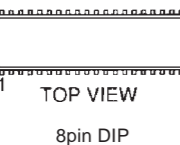
LM2940CT-5.0
L7812CV
NJM78M05FA
PQ09RF2
TA7812S
μPC2405HF



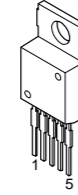
LM358D
LM358DR-E2
NJM4558M-TE2
ST24C08FM6TR
TL082CPS-E05
TL082M
μPC4558G2



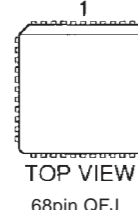
LM393P
NJM4560D
RC4560D
TDA2822M
TDA7264
TOP209P
μPC393C



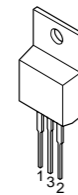
MC14052BF



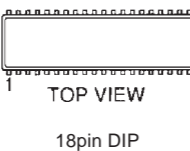
MSP3410D-PS-B4-T-ND



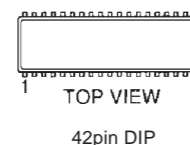
NJM79M05FA



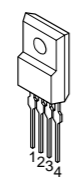
PA0053B



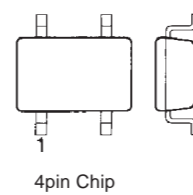
PM0002B
PM0011AS



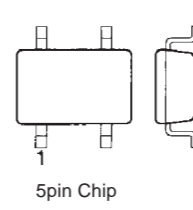
PQ05RF11



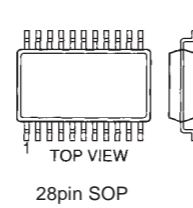
PST593C-MMP-4P



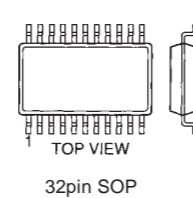
PST9143NL



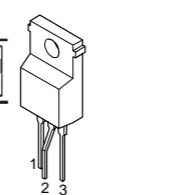
SDA9187-2XGEG



SDA9189XGEG
SDA9189XGEGA132

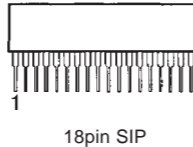


SE135N-LF12
SE-135N

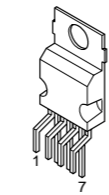


STK392-150

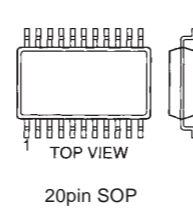
MARKING SIDE VIEW



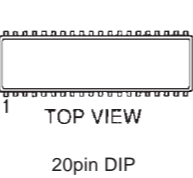
STV9379



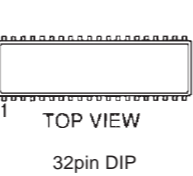
TDA8395T/N3



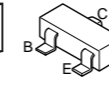
TDA8424



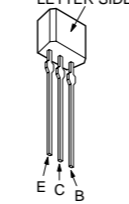
TDA9160A
XR1071CP



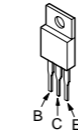
DTA144EKA-T146
DTC114EK
DTC114EKA-T146
DTC124EK
DTC124EKA-T146
DTC143TKA-T146
DTC144EKA
DTC144EKA-T146
2SA1037AK-T146-QR
2SA1037AK-T146-R
2SA1037K-T-146-QR
2SA1162G
2SC1623-L5L6
2SC2412K-T-146-QR
2SC2712-YG
2SC2712-YG-TE85L



DTC144ESA
2SA1175-HFE
2SA1309A-QRSTA
2SC2785-HFE
2SC3311A-QRSTA



IRF1744G-LF
2SA1837
2SC4793
2SC5022-02



2SA1091-O



2SA1208



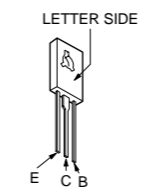
2SA1524



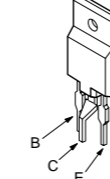
2SB734-34



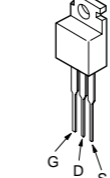
2SC2611
2SC2688-LK



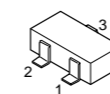
2SC4632LS-CB7
2SD2539 (LBSONY-1)



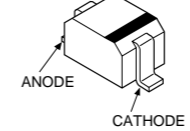
2SK2251-01-F19



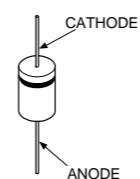
DAP202K



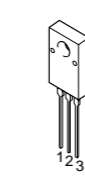
DTZ4.7C
DTZ9.1
UDZ-TE-17-3.9B
UDZ-TE-17-4.7B
UDZ-TE-17-9.1B
1SS355
1SS355TE-17



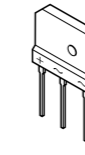
D1NL20-TR
D2S4M



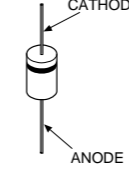
D10SC6M-4012



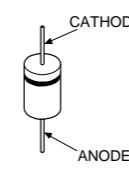
D4SBS4
D4SBS4-F
D6SB60L
RBA-406B



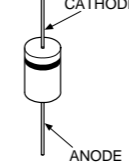
ERC04-06S
ERC06-15S
2SLA20F
1SS133T-72
1SS133T-77



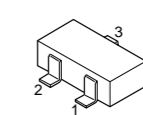
ERD29-08J



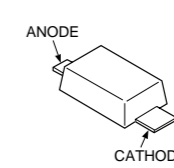
EL1Z
EL1Z-V1
GP08D
GP08DPKG23
MTZJ-T-77-9.1A
RGP02-17EL-6433
RGP02-17PKG23
RGP02-20EL-6394
RGP10GPKG23
S2L40F
UF4005PKG23



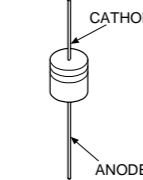
MA3240-TX



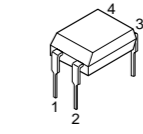
MA8039



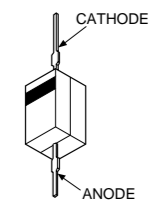
MTZJ-T-77-12B
MTZJ-T-77-13
MTZJ-T-77-13B
MTZJ-T-77-20C
MTZJ-T-77-33
MTZJ-T-77-33C
MTZJ-T-77-3.6
MTZJ-T-77-39
MTZJ-T-77-5.1
MTZJ-T-77-5.1B
MTZJ-T-77-5.6
MTZJ-T-77-5.6B
MTZJ-T-77-7.5B
MTZJ-T-77-7.5C
MTZJ-T-77-9.1
MTZJ-13
MTZJ-13B
MTZJ-33B
MTZJ-33C
MTZJ-7.5B
RD12ES-B2
RD20ES-B2
RD3.0ESB2
RD3.0ES-T1B2
RD3.6ES-B1
RD39ES-B2
RD5.1ES-B1
RD5.1ES-B2
RD5.6ESB2
RD7.5ESB2
1SS119-25



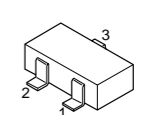
PC123FY2
PC123F2



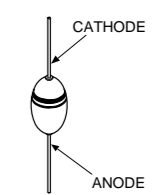
P6KE200AG23



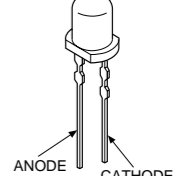
RD3.3M-B2



U05G



SLA-580LT3F



SECTION 7 EXPLODED VIEWS

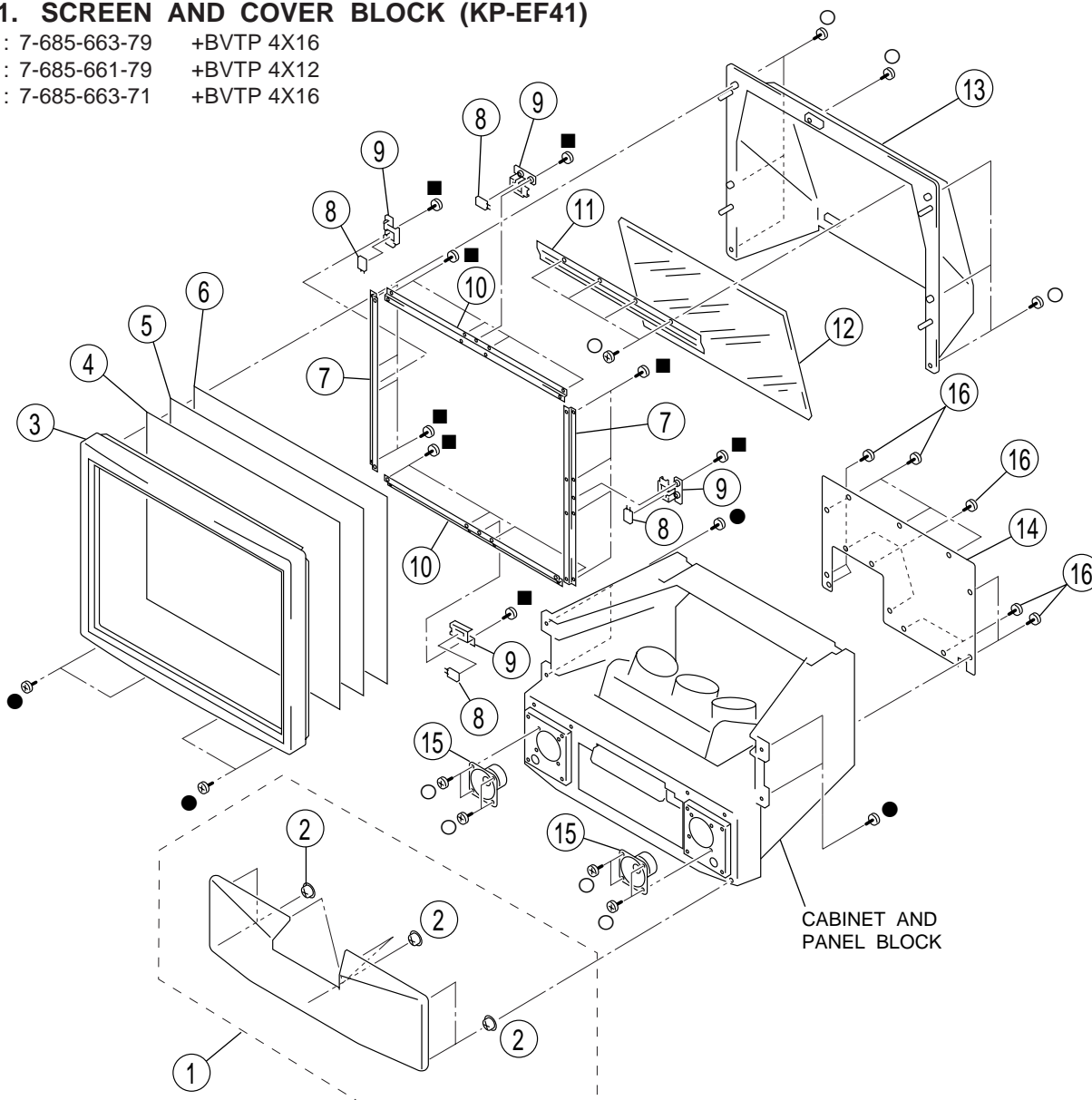
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

7-1. SCREEN AND COVER BLOCK (KP-EF41)

- : 7-685-663-79 +BVTP 4X16
■ : 7-685-661-79 +BVTP 4X12
● : 7-685-663-71 +BVTP 4X16

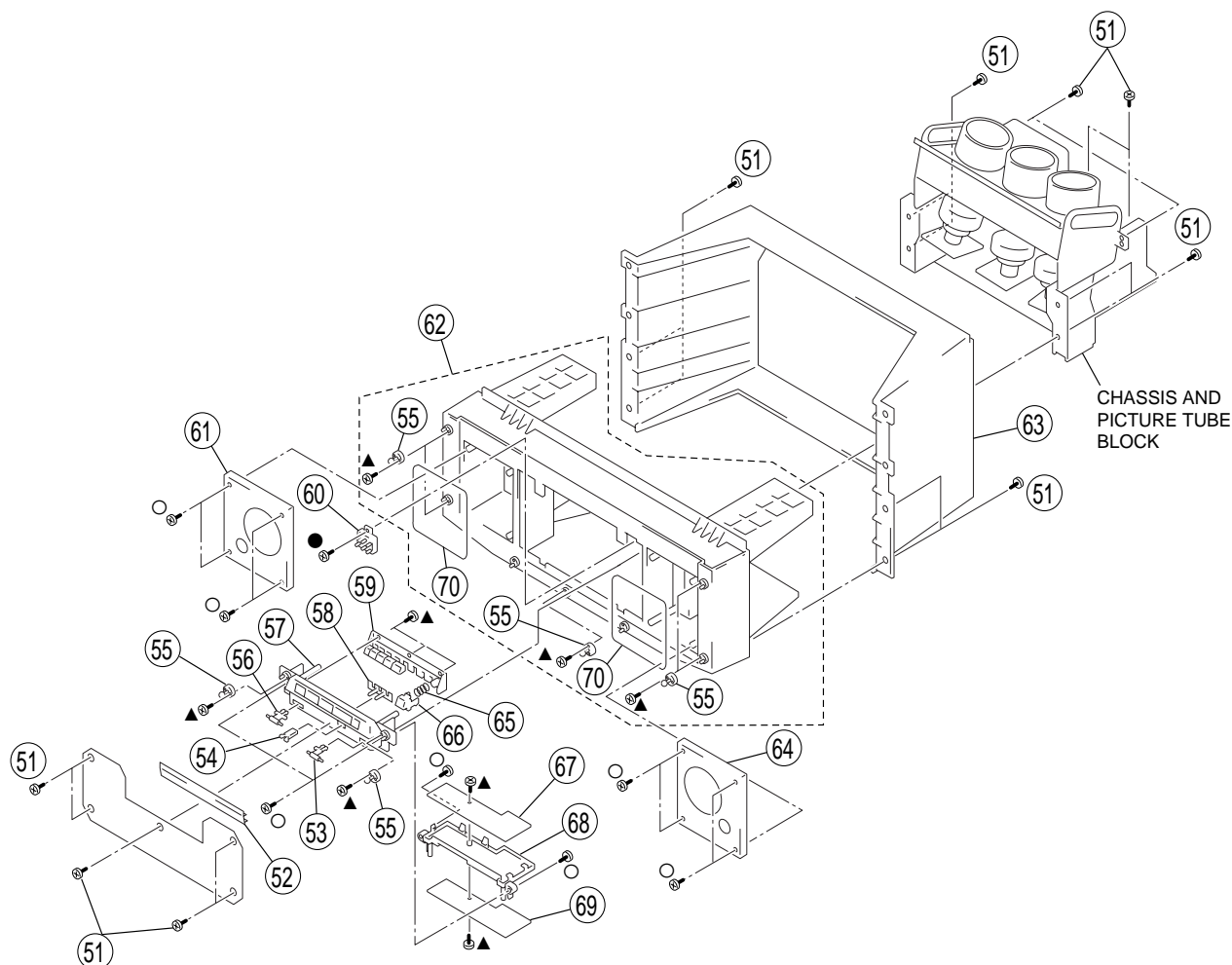


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4035-350-1	GRILLE ASSY, SPEAKER	2	9	* 4-063-173-01	HOLDER, SENSOR	
2	4-838-438-00	LATCH		10	* 4-063-160-01	HOLDER (H), SCREEN	
3	X-4035-348-1	BEZNET ASSY		11	* 4-054-837-01	HOLDER, MIRROR	
4	4-063-365-01	SCREEN, CONTRAST		12	4-063-153-01	MIRROR (41)	
5	4-063-063-11	PLATE (L), DIFFUSION		13	4-062-540-01	COVER, MIRROR	
6	4-063-064-11	PLATE (F), DIFFUSION		14	* 4-063-177-01	BOARD (41), REAR	
7	* 4-063-168-01	HOLDER (V), SCREEN		15	1-505-426-11	SPEAKER (10.6 CM)	
8	1-528-864-11	BATTERY, SOLAR		16	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	

7-2. CABINET AND PANEL BLOCK (KP-EF41)

- : 7-685-663-79 +BVTP 4X16
● : 7-685-663-71 +BVTP 4X16
▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.

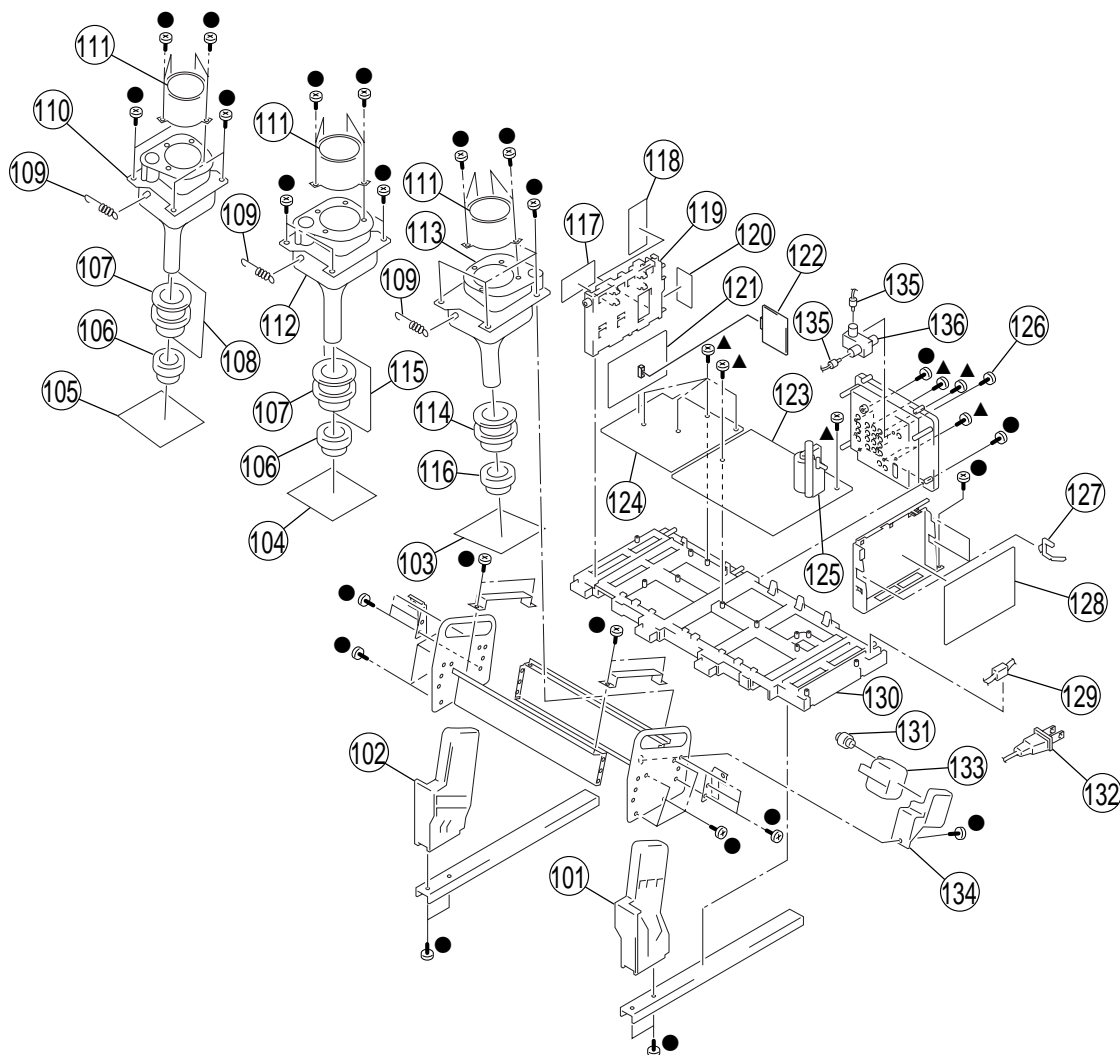


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		61	* 4-062-542-01	BOARD (L), BAFFLE	
52	4-063-172-11	DOOR		62	X-4035-351-1	CABINET ASSY, FRONT	55, 70
53	4-045-250-01	DAMPER		63	4-062-539-01	CABINET (REAR)	
54	4-047-464-01	CATCHER, PUSH		64	* 4-062-543-01	BOARD (R), BAFFLE	
55	4-843-806-00	STRIKE		65	4-202-964-01	SPRING	
56	3-703-035-11	SHAFT, LID		66	4-063-165-01	BUTTON, POWER	
57	4-063-171-11	PANEL, CONTROL		67	* A-1372-413-A	H1 BOARD, COMPLETE	
58	4-063-164-01	GUIDE, LIGHT		68	* 4-063-174-01	BRACKET (H)	
59	4-063-170-01	BUTTON, MULTI		69	* A-1375-169-A	H2 BOARD, COMPLETE	
60	▲ 1-223-925-41	RESISTOR ASSY (HIGH-VOLTAGE)		70	* 4-063-151-01	SPACER (SP)	

7-3. CHASSIS AND PICTURE TUBE BLOCK (KP-EF41)

- : 7-685-663-71 +BVTP 4X16
▲ : 7-685-648-79 +BVTP 3X12

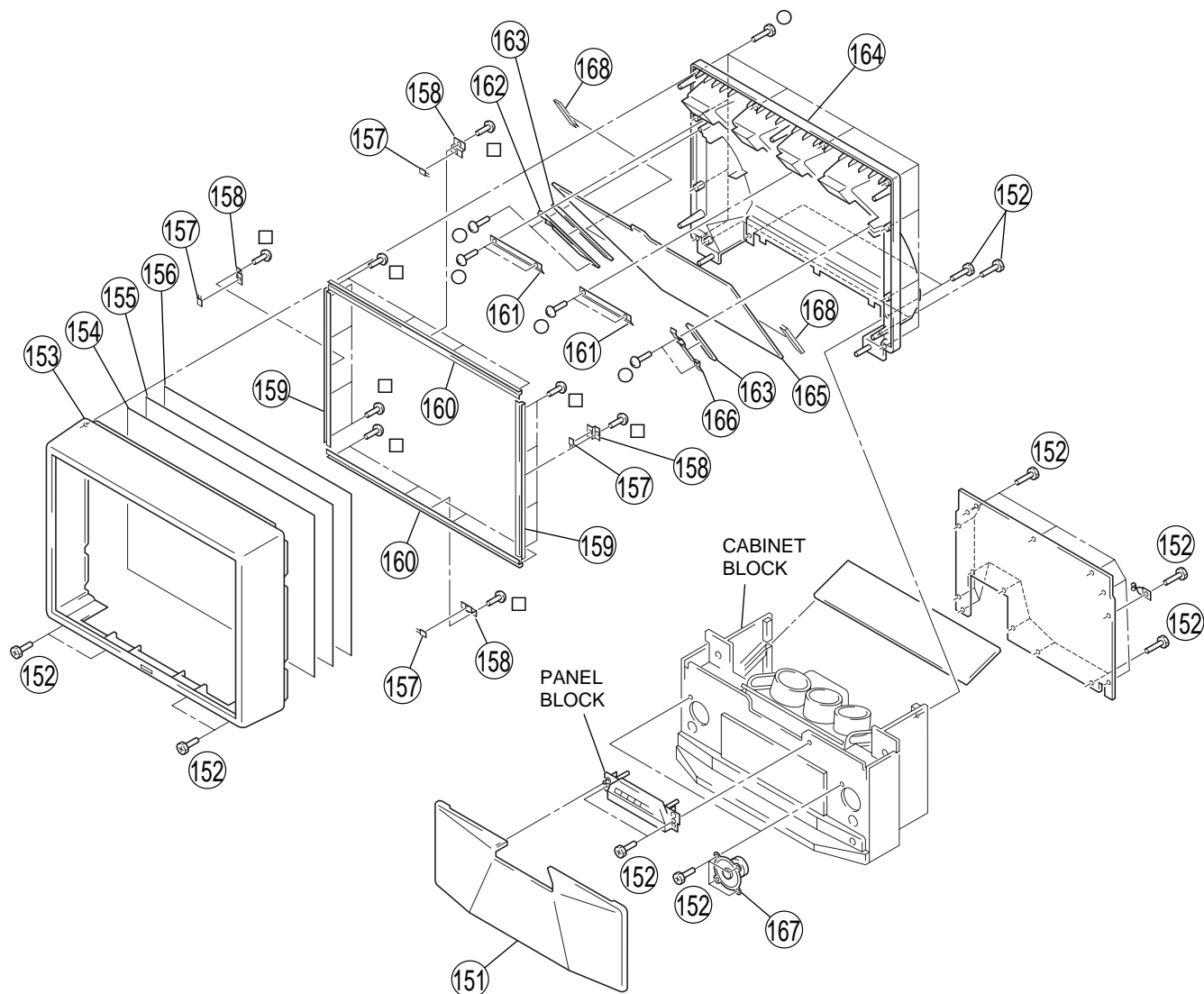
The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	* 4-062-545-01	STAY (R), SIDE		121	* A-1298-316-A	AG BOARD, COMPLETE (EF41:HK/MN/SN)	
102	* 4-062-544-01	STAY (L), SIDE		121	* A-1298-516-A	AG BOARD, COMPLETE (EF41:ME)	
103	* A-1331-736-A	CB BOARD, COMPLETE		122	* A-1390-783-A	S BOARD, COMPLETE	
104	* A-1331-735-A	CG BOARD, COMPLETE		123	* A-1346-679-A	E BOARD, COMPLETE	
105	* A-1331-734-A	CR BOARD, COMPLETE		124	* A-1346-678-A	D BOARD, COMPLETE	
106	▲ 1-452-790-11	NECK ASSY		125	▲ 1-453-248-21	TRANSFORMER ASSY, FLYBACK (NX-4007//X4T4)	
107	▲ 1-451-455-11	DEFLECTION YOKE (R, G)		126	4-382-854-11	SCREW (M3X10), P, SW (+)	
108	* A-1390-784-A	ZR BOARD, COMPLETE		127	* 4-316-015-00	HOLDER, WIRE	
109	4-048-142-11	SPRING, EXTENSION		128	* A-1316-354-A	G BOARD, COMPLETE	
110	▲ A-1501-259-A	MECHASEAL ASSY (R), SLANT		129	4-389-201-11	HOLDER, AC CORD	
111	4-056-258-01	LENS (DELTA 78)		130	* 4-062-537-01	BRACKET, MAIN	
112	▲ A-1501-260-A	MECHASEAL ASSY (G), SLANT		131	4-373-137-01	CAP (Z), RUBBER	
113	▲ A-1501-261-A	MECHASEAL ASSY (B), SLANT		132	▲ 1-574-358-51	CORD, POWER (WITH CONNECTOR) (EF41:SN)	
114	▲ 1-451-455-21	DEFLECTION YOKE (B)		132	▲ 1-690-270-21	CORD, POWER (WITH CONNECTOR) (EF41: ME/MN)	
115	* A-1390-785-A	ZG BOARD, COMPLETE		132	▲ 1-769-609-21	CORD, POWER (WITH CONNECTOR) (EF41:HK)	
116	▲ 1-452-909-31	MAGNET ASSY, 4 POLE		133	▲ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
117	* A-1342-410-A	V2 BOARD, COMPLETE		134	* 4-063-176-01	HOLDER, HVR	
118	* A-1190-298-A	P1 BOARD, COMPLETE		135	1-555-400-00	CABLE, PIN	
119	4-062-536-11	BRACKET (A)		136	1-251-372-21	BOOSTER, RF	
120	* A-1373-657-A	UG BOARD, COMPLETE					

7-4. SCREEN AND COVER BLOCK (KP-EF48)

- : 7-685-663-79 +BVTP 4X16
□ : 7-685-661-14 +BVTP 4X12



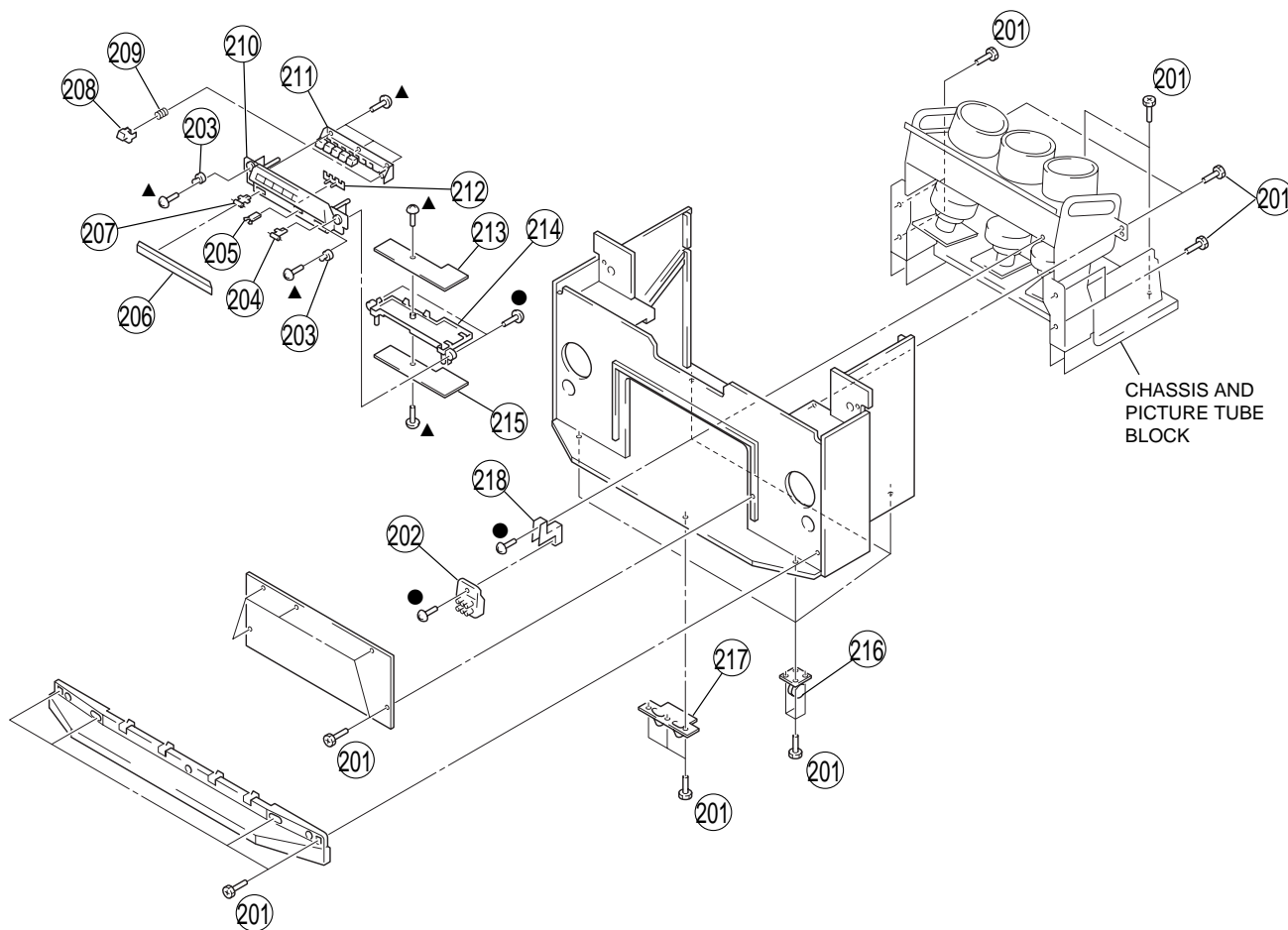
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
151	X-4035-511-1	GRILLE ASSY, SPEAKER		160	*4-064-052-01	HOLDER (H), SCREEN	
152	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		161	4-064-042-01	HOLDER, MIRROR	
153	X-4035-510-1	BEZNET ASSY (48)		162	*4-051-790-02	HOLDER, MIRSD (L)	
154	4-064-041-01	SCREEN, CONTRAST		163	*4-049-098-01	CUSHION	
155	4-064-040-01	PLATE (L), DIFFUSION		164	*4-057-610-01	COVER, MIRROR	
156	4-058-455-11	PLATE (F), DIFFUSION		165	4-064-044-01	MIRROR (48), REFLECTION	
157	1-528-864-11	BATTERY, SOLAR		166	*4-051-789-02	HOLDER, MIRSD (R)	
158	*4-063-173-01	HOLDER, SENSOR		167	1-505-573-11	SPEAKER (13 CM)	
159	*4-064-051-01	HOLDER (V48), SCREEN		168	4-033-775-41	PROTECTOR, MIRROR	

7-5. CABINET AND PANEL BLOCK (KP-EF48)

● : 7-685-663-71 +BVTP 4X16

▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.

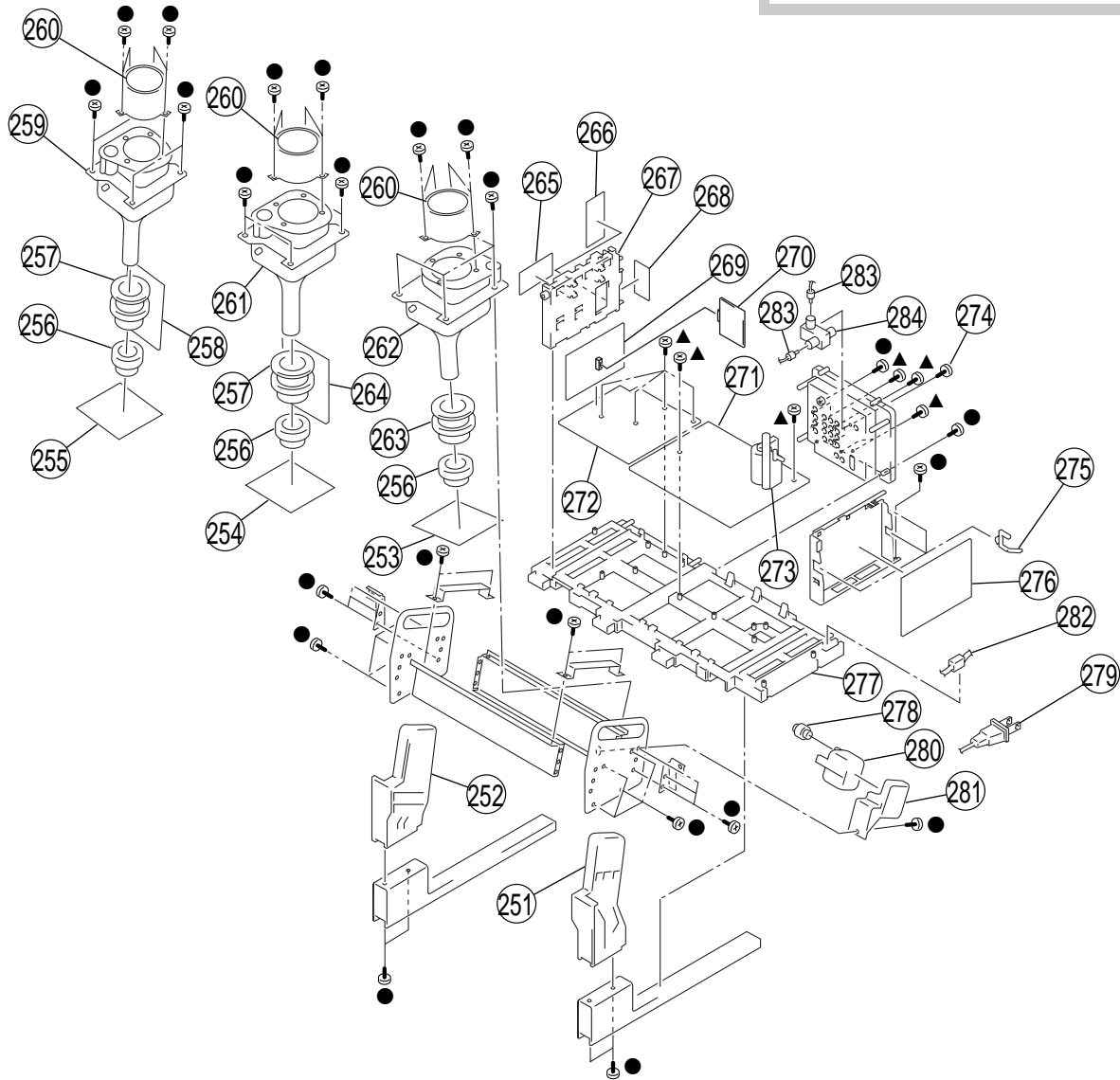


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
201	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		210	4-063-171-11	PANEL, CONTROL	
202	▲ 1-223-925-41	RESISTOR ASSY (HIGH-VOLTAGE)		211	4-063-170-01	BUTTON, MULTI	
203	4-843-806-00	STRIKE		212	4-063-164-01	GUIDE, LIGHT	
204	4-045-250-01	DAMPER		213	* A-1372-413-A	H1 BOARD, COMPLETE	
205	4-047-464-01	CATCHER, PUSH		214	* 4-063-174-01	BRACKET (H)	
206	4-063-172-11	DOOR		215	* A-1375-169-A	H2 BOARD, COMPLETE	
207	3-703-035-11	SHAFT, LID		216	4-040-755-01	CASTER (DIA. 30)	
208	4-063-165-01	BUTTON, POWER		217	4-048-175-01	FOOT, PLASTIC	
209	4-202-964-01	SPRING		218	* 4-054-825-01	BRACKET, FOCUS PACK	

7-6. CHASSIS AND PICTURE TUBE BLOCK (KP-EF48)

- : 7-685-663-71 +BVTP 4X16
▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.

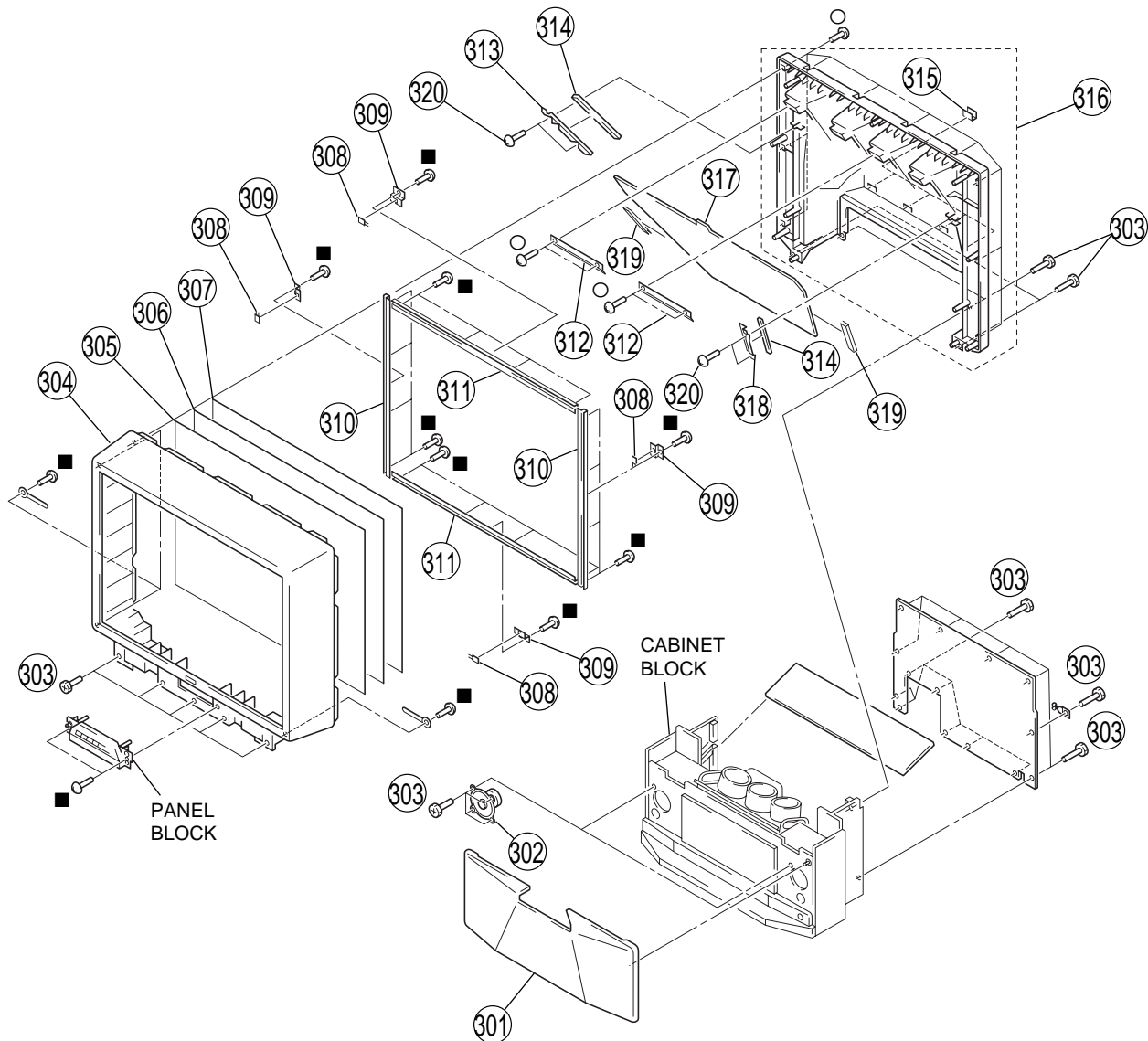


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
251	* 4-062-545-01	STAY (R), SIDE		269	* A-1298-516-A	AG BOARD, COMPLETE (EF48ME)	
252	* 4-062-544-01	STAY (L), SIDE		270	* A-1390-783-A	S BOARD, COMPLETE	
253	* A-1331-736-A	CB BOARD, COMPLETE		271	* A-1346-736-A	E BOARD, COMPLETE	
254	* A-1331-735-A	CG BOARD, COMPLETE		272	* A-1346-678-A	D BOARD, COMPLETE	
255	* A-1331-734-A	CR BOARD, COMPLETE		273	▲ 1-453-248-21	TRANSFORMER ASSY, FLYBACK (NX-4007//X4T4)	
256	▲ 1-452-790-11	NECK ASSY		274	4-382-854-11	SCREW (M3X10), P, SW (+)	
257	▲ 1-451-455-11	DEFLECTION YOKE (R, G)		275	* 4-316-015-00	HOLDER, WIRE	
258	* A-1390-784-A	ZR BOARD, COMPLETE		276	* A-1316-354-A	G BOARD, COMPLETE	
259	▲ 8-733-553-05	CRT 07MXC3 (R)		277	* 4-062-537-01	BRACKET, MAIN	
260	4-056-258-01	LENS (DELTA 78)		278	4-373-137-01	CAP (Z), RUBBER	
261	▲ 8-733-537-05	CRT 07MXC2 (G)		279	▲ 1-574-358-51	CORD, POWER (WITH CONNECTOR) (EF48SN)	
262	▲ 8-733-528-05	CRT 07MAC3 (B) (GROUND SPRING)		279	▲ 1-690-270-21	CORD, POWER (WITH CONNECTOR) (EF48: ME/MN)	
263	▲ 1-451-455-21	DEFLECTION YOKE (B)		279	▲ 1-769-609-21	CORD, POWER (WITH CONNECTOR) (EF48HK)	
264	* A-1390-785-A	ZG BOARD, COMPLETE		280	▲ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
265	* A-1342-410-A	V2 BOARD, COMPLETE		281	* 4-063-176-01	HOLDER, HVR	
266	* A-1190-298-A	P1 BOARD, COMPLETE		282	4-389-201-11	HOLDER, AC CORD	
267	4-062-536-11	BRACKET (A)		283	1-555-400-00	CABLE, PIN	
268	* A-1373-657-A	UG BOARD, COMPLETE		284	1-251-372-21	BOOSTER, RF	
269	* A-1298-316-A	AG BOARD, COMPLETE (EF48:HK/MN/SN)					

7-7. SCREEN AND COVER BLOCK (KP-EF53)

○ : 7-685-663-79 +BVTP 4X16

■ : 7-685-661-79 +BVTP 4X12

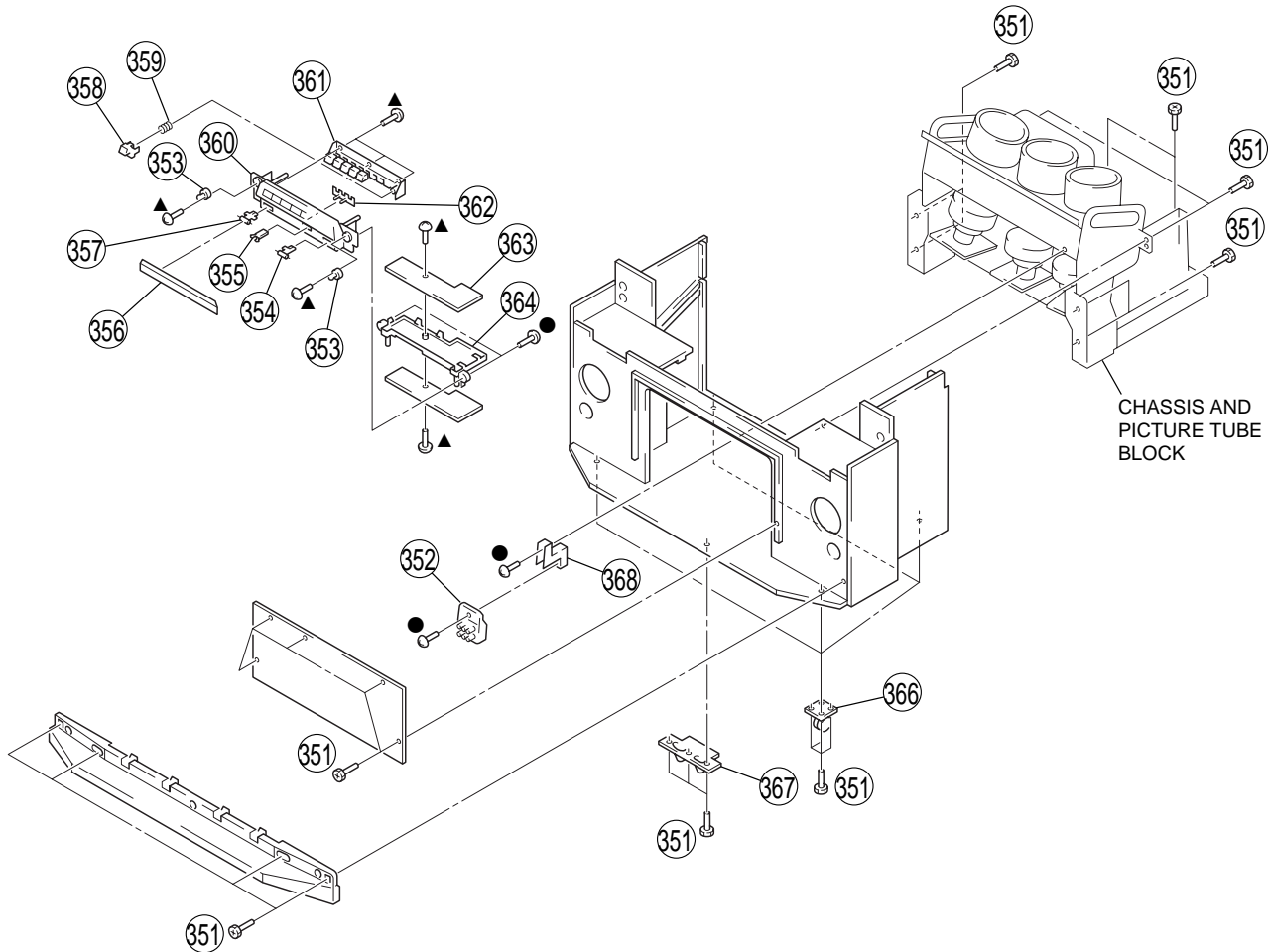


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
301	X-4035-511-1	GRILLE ASSY, SPEAKER		311	*4-064-052-01	HOLDER (H), SCREEN	
302	1-505-573-11	SPEAKER (13 CM)		312	4-064-042-01	HOLDER, MIRROR	
303	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		313	*4-051-790-02	HOLDER, MIRSD (L)	
304	X-4035-524-1	BEZNET ASSY (53)		314	*4-049-098-01	CUSHION	
305	4-064-186-01	SCREEN, CONTRAST		315	4-048-150-01	CAP, HOLE	
306	4-064-185-01	PLATE (L), DIFFUSION		316	*X-4032-620-1	COVER ASSY, MIRROR	315
307	4-059-221-11	PLATE (F), DIFFUSION		317	4-064-188-01	MIRROR (53), REFLECTION	
308	1-528-864-11	BATTERY, SOLAR		318	*4-051-789-02	HOLDER, MIRSD (R)	
309	*4-063-173-01	HOLDER, SENSOR		319	4-033-775-41	PROTECTOR, MIRROR	
310	*4-064-189-01	HOLDER (V53), SCREEN		320	4-340-851-02	SCREW (4X25) +PWH TAPPING	

7-8. CABINET AND PANEL BLOCK (KP-EF53)

- : 7-685-663-71 +BVTP 4X16
▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.

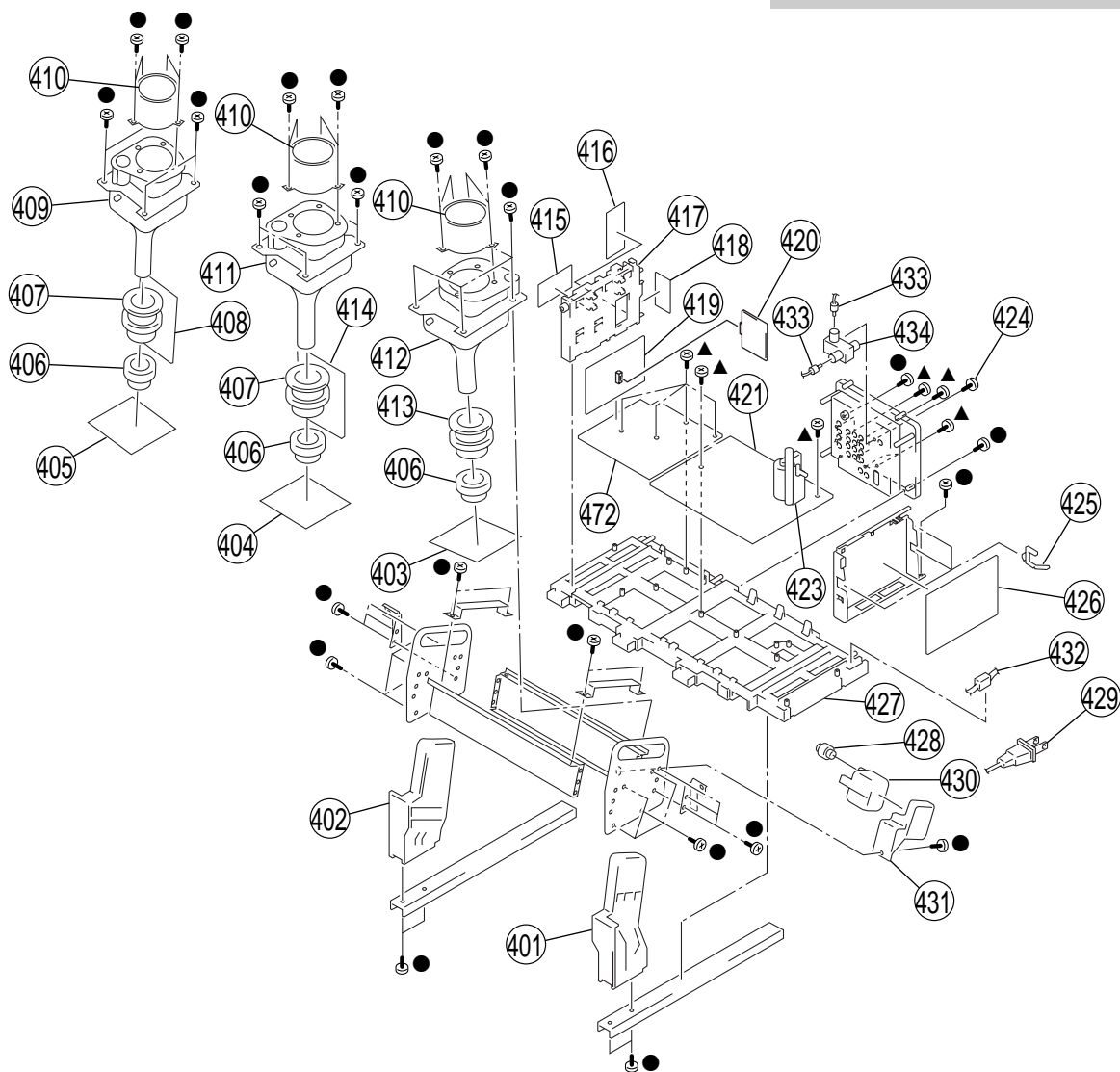


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
351	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		360	4-063-171-11	PANEL, CONTROL	
352	▲ 1-223-925-41	RESISTOR ASSY (HIGH-VOLTAGE)		361	4-063-170-01	BUTTON, MULTI	
353	4-843-806-00	STRIKE		362	4-063-164-01	GUIDE, LIGHT	
354	4-054-250-01	DAMPER		363	* A-1372-413-A	H1 BOARD, COMPLETE	
355	4-047-464-01	CATCHER, PUSH		364	* 4-063-174-01	BRACKET (H)	
356	4-063-172-11	DOOR		365	* A-1375-169-A	H2 BOARD, COMPLETE	
357	3-703-035-11	SHAFT, LID		366	4-040-755-01	CASTER (DIA. 30)	
358	4-063-165-01	BUTTON, POWER		367	4-048-175-01	FOOT, PLASTIC	
359	4-202-964-01	SPRING		368	* 4-054-825-01	BRACKET, FOCUS PACK	

7-9. CHASSIS AND PICTURE TUBE BLOCK (KP-EF53)

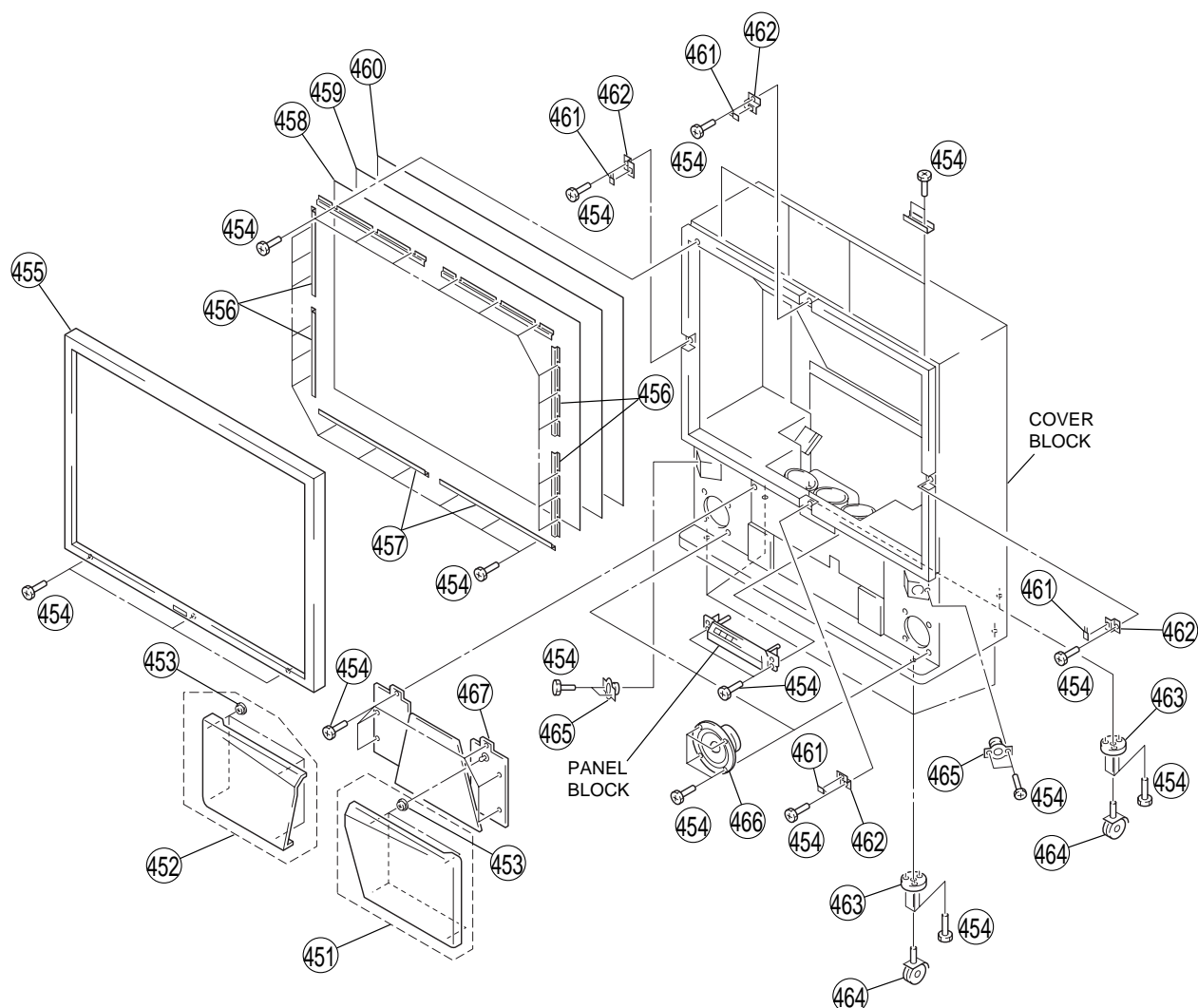
- : 7-685-663-71 +BVTP 4X16
▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
401	*4-062-545-01	STAY (R), SIDE		419	*A-1298-516-A	AG BOARD, COMPLETE (EF53ME)	
402	*4-062-544-01	STAY (L), SIDE		420	*A-1390-783-A	S BOARD, COMPLETE	
403	*A-1331-736-A	CB BOARD, COMPLETE		421	*A-1346-736-A	E BOARD, COMPLETE	
404	*A-1331-735-A	CG BOARD, COMPLETE		422	*A-1346-678-A	D BOARD, COMPLETE	
405	*A-1331-734-A	CR BOARD, COMPLETE		423	▲ 1-453-248-21	TRANSFORMER ASSY, FLYBACK (NX-4007//X4T4)	
406	▲ 1-452-790-11	NECK ASSY		424	4-382-854-11	SCREW (M3X10), P, SW (+)	
407	▲ 1-451-455-11	DEFLECTION YOKE (R, G)		425	*4-316-015-00	HOLDER, WIRE	
408	*A-1390-784-A	ZR BOARD, COMPLETE		426	*A-1316-354-A	G BOARD, COMPLETE	
409	▲ 8-733-553-05	CRT 07MXC3 (R)		427	*4-062-537-01	BRACKET, MAIN	
410	4-056-258-01	LENS (DELTA 78)		428	4-373-137-01	CAP (Z), RUBBER	
411	▲ 8-733-537-05	CRT 07MXC2 (G)		429	▲ 1-574-358-51	CORD, POWER (WITH CONNECTOR) (EF53SN)	
412	▲ 8-733-528-05	CRT 07MAC3 (B) (GROUND SPRING)		429	▲ 1-690-270-21	CORD, POWER (WITH CONNECTOR) (EF53: ME/MN)	
413	▲ 1-451-455-21	DEFLECTION YOKE (B)		429	▲ 1-769-609-21	CORD, POWER (WITH CONNECTOR) (EF53HK)	
414	*A-1390-785-A	ZG BOARD, COMPLETE		430	▲ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
415	*A-1342-410-A	V2 BOARD, COMPLETE		431	*4-063-176-01	HOLDER, HVR	
416	A-1190-298-A	P1 BOARD, COMPLETE		432	4-389-201-11	HOLDER, AC CORD	
417	4-062-536-11	BRACKET (A)		433	1-555-400-00	CABLE, PIN	
418	*A-1373-657-A	UG BOARD, COMPLETE		434	1-251-372-21	BOOSTER, RF	
419	*A-1298-316-A	AG BOARD, COMPLETE (EF53:HK/MN/SN)					

7-10. SCREEN BLOCK (KP-EF61)

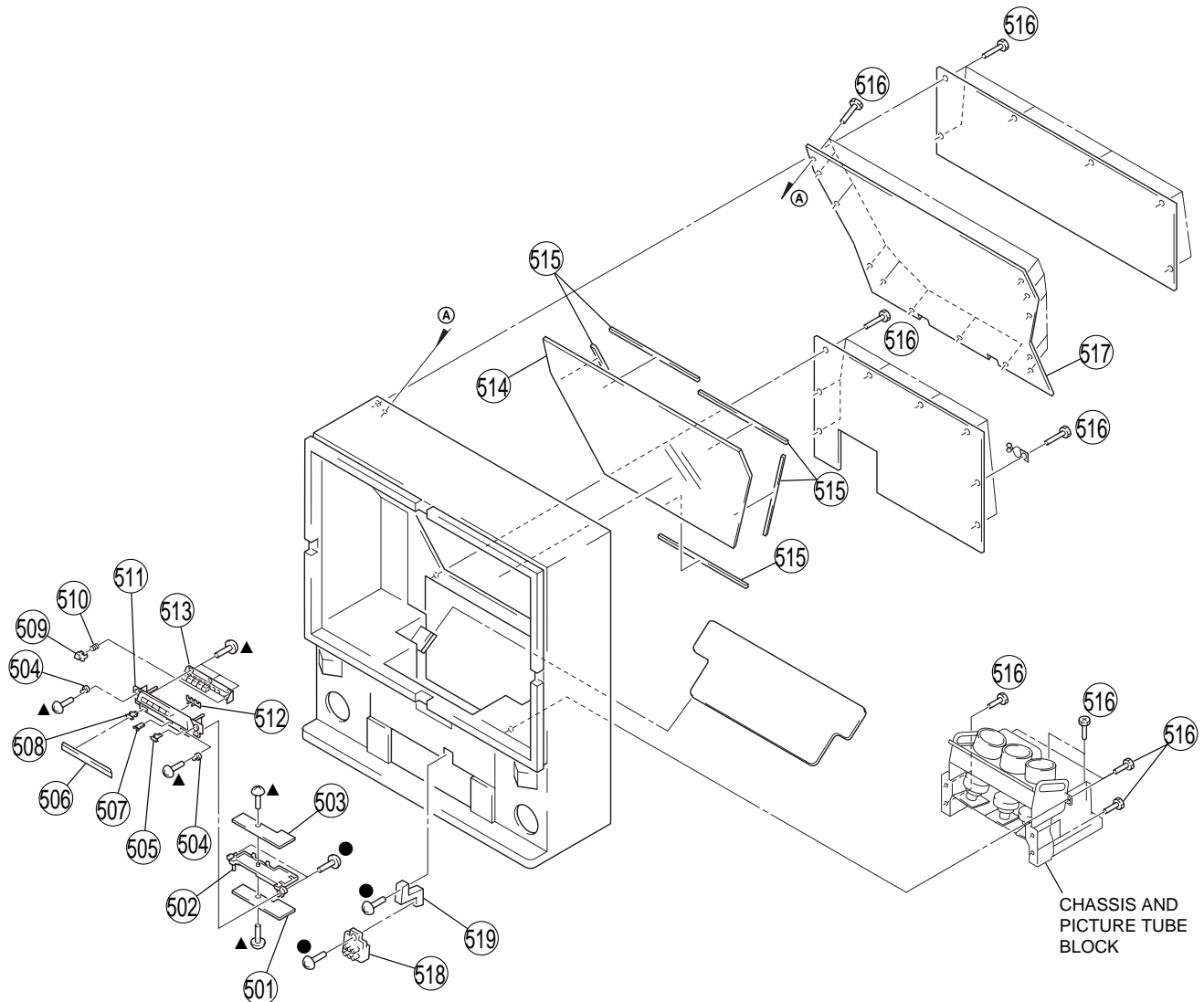


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
451	X-4035-602-1	GRILLE (R) (61) ASSY, SPEAKER	453	460	4-040-123-11	PLATE (F), DIFFUSION	
452	X-4035-603-1	GRILLE (L) (61) ASSY, SPEAKER	453	461	1-528-864-11	BATTERY, SOLAR	
453	4-838-438-00	LATCH		462	*4-063-173-01	HOLDER, SENSOR	
454	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		463	4-030-850-01	SOCKET, CASTER	
455	X-4035-605-1	FRAME (61) ASSY, SCREEN		464	4-040-508-01	CASTER	
456	4-064-633-01	HOLDER (S), SCREEN		465	1-505-703-11	SPEAKER (5 CM)	
457	4-064-634-01	HOLDER (L), SCREEN		466	1-505-704-11	SPEAKER (16 CM)	
458	4-064-629-01	SCREEN (61), CONTRAST		467	X-4035-607-1	COVER (61) ASSY, FRONT	
459	4-064-628-01	PLATE (L), DIFFUSION					

7-11. PANEL AND COVER BLOCK (KP-EF61)

- : 7-685-663-71 +BVTP 4X16
▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.

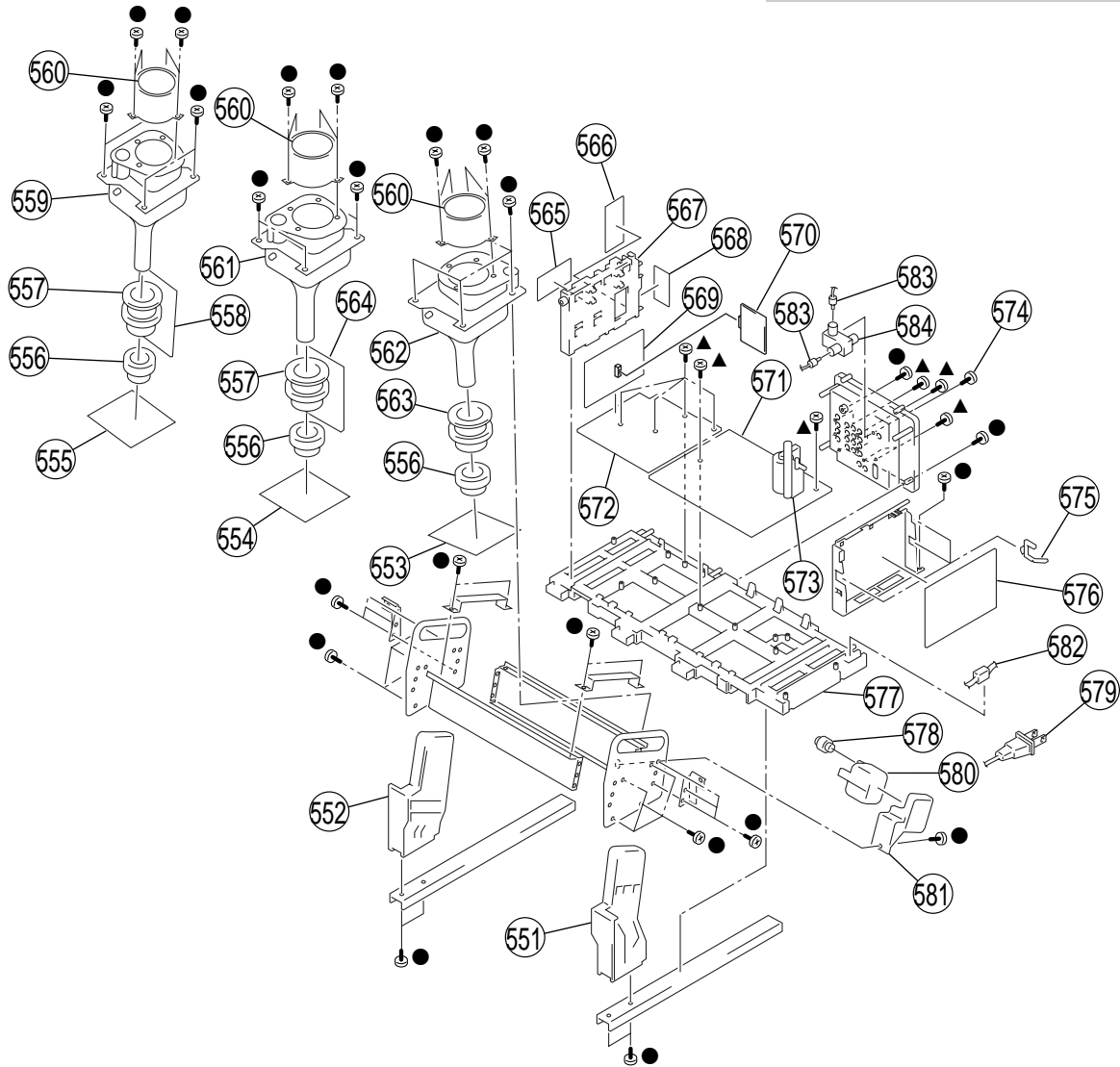


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
501	* A-1375-169-A	H2 BOARD, COMPLETE		511	4-063-171-11	PANEL, CONTROL	
502	* 4-063-174-01	BRACKET (H)		512	4-063-164-01	GUIDE, LIGHT	
503	* A-1372-413-A	H1 BOARD, COMPLETE		513	4-063-170-01	BUTTON, MULTI	
504	4-843-806-00	STRIKE		514	4-064-635-01	MIRROR (61), REFLECTION	
505	4-045-250-01	DAMPER		515	4-059-838-01	SPACER, MIRROR	
506	4-063-172-11	DOOR		516	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
507	4-047-464-01	CATCHER, PUSH		517	4-064-640-01	COVER (61), MIRROR	
508	3-703-035-11	SHAFT, LID		518	▲ 1-223-925-41	RESISTOR ASSY (HIGH-VOLTAGE)	
509	4-063-165-01	BUTTON, POWER		519	* 4-054-825-01	BRACKET, FOCUS PACK	
510	4-202-964-01	SPRING					

7-12. CHASSIS AND PICTURE TUBE BLOCK (KP-EF61)

- : 7-685-663-71 +BVTP 4X16
▲ : 7-685-648-79 +BVTP 3X12

The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
551	* 4-062-545-01	STAY (R), SIDE		569	* A-1298-516-A	AG BOARD, COMPLETE (EF61ME)	
552	* 4-062-544-01	STAY (L), SIDE		570	* A-1390-783-A	S BOARD, COMPLETE	
553	* A-1331-736-A	CB BOARD, COMPLETE		571	* A-1346-736-A	E BOARD, COMPLETE	
554	* A-1331-735-A	CG BOARD, COMPLETE		572	* A-1346-678-A	D BOARD, COMPLETE	
555	* A-1331-734-A	CR BOARD, COMPLETE		573	▲ 1-453-248-21	TRANSFORMER ASSY, FLYBACK (NX-4007//X4T4)	
556	▲ 1-452-790-11	NECK ASSY		574	4-382-854-11	SCREW (M3X10), P, SW (+)	
557	▲ 1-451-455-11	DEFLECTION YOKE (R, G)		575	* 4-316-015-00	HOLDER, WIRE	
558	* A-1390-784-A	ZR BOARD, COMPLETE		576	* A-1316-354-A	G BOARD, COMPLETE	
559	▲ 8-733-555-05	CRT 07MXC4 (R)		577	* 4-062-537-01	BRACKET, MAIN	
560	4-040-131-21	LENS (LINNIT POINT 6)		578	4-373-137-01	CAP (Z), RUBBER	
561	▲ 8-733-537-05	CRT 07MXC2 (G)		579	▲ 1-574-358-51	CORD, POWER (WITH CONNECTOR) (EF61SN)	
562	▲ 8-733-529-05	CRT 07MAC4 (B) (GROUND SPRING)		579	▲ 1-690-270-21	CORD, POWER (WITH CONNECTOR) (EF61: ME/MN)	
563	▲ 1-451-455-21	DEFLECTION YOKE (B)		579	▲ 1-769-609-21	CORD, POWER (WITH CONNECTOR) (EF61HK)	
564	* A-1390-785-A	ZG BOARD, COMPLETE		580	▲ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
565	* A-1342-410-A	V2 BOARD, COMPLETE		581	* 4-063-176-01	HOLDER, HVR	
566	A-1190-298-A	P1 BOARD, COMPLETE		582	4-389-201-11	HOLDER, AC CORD	
567	4-062-536-11	BRACKET (A)		583	1-555-400-00	CABLE, PIN	
568	* A-1373-657-A	UG BOARD, COMPLETE		584	1-251-372-21	BOOSTER, RF	
569	* A-1298-316-A	AG BOARD, COMPLETE (EF61:HK/MN/SN)					

SECTION 8

P₁

ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

The components identified by \square in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- Items marked " * " are not stocked since they are seldom required for routine

RESISTORS

- All resistors are in ohms
- F : nonflammable

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		* A-1190-298-AP1 BOARD, COMPLETE *****					
		<CAPACITOR>					
	C2301	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2438	1-115-339-11 CERAMIC CHIP 0.1MF	10% 50V
	C2302	1-104-664-11 ELECT 47MF	20% 25V		C2439	1-164-346-11 CERAMIC CHIP 1MF	16V
	C2303	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2440	1-164-346-11 CERAMIC CHIP 1MF	16V
	C2304	1-104-664-11 ELECT 47MF	20% 25V		C2442	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2305	1-164-232-11 CERAMIC CHIP 0.01MF	10% 50V				
	C2306	1-164-232-11 CERAMIC CHIP 0.01MF	10% 50V		C2443	1-126-933-11 ELECT 100MF	20% 10V
	C2307	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2444	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2308	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2445	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2309	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2446	1-164-346-11 CERAMIC CHIP 1MF	16V
	C2310	1-104-664-11 ELECT 47MF	20% 25V		C2447	1-126-933-11 ELECT 100MF	20% 16V
	C2311	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2448	1-163-251-11 CERAMIC CHIP 100PF	5% 50V
	C2312	1-164-005-11 CERAMIC CHIP 0.47MF	25V		C2449	1-126-933-11 ELECT 100MF	20% 10V
	C2313	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2450	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2402	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2451	1-104-664-11 ELECT 47MF	20% 25V
	C2403	1-104-664-11 ELECT 47MF	20% 25V		C2452	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2405	1-164-346-11 CERAMIC CHIP 1MF	16V		C2453	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2406	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2454	1-163-037-11 CERAMIC CHIP 0.022MF	10% 50V
	C2407	1-126-964-11 ELECT 10MF	20% 50V		C2455	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2413	1-164-005-11 CERAMIC CHIP 0.47MF	25V		C2456	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2415	1-164-232-11 CERAMIC CHIP 0.01MF	10% 50V		C2457	1-126-933-11 ELECT 100MF	20% 10V
	C2416	1-163-001-11 CERAMIC CHIP 220PF	10% 50V		C2458	1-163-017-00 CERAMIC CHIP 0.0047MF	10% 50V
	C2417	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2459	1-163-037-11 CERAMIC CHIP 0.022MF	10% 50V
	C2418	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2460	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2419	1-126-933-11 ELECT 100MF	20% 10V		C2461	1-163-235-11 CERAMIC CHIP 22PF	5% 50V
	C2420	1-164-004-11 CERAMIC CHIP 0.1MF	10% 25V		C2463	1-163-237-11 CERAMIC CHIP 27PF	5% 50V
	C2421	1-164-343-11 CERAMIC CHIP 0.056MF	10% 25V		C2464	1-163-231-11 CERAMIC CHIP 15PF	5% 50V
	C2423	1-164-346-11 CERAMIC CHIP 1MF	16V		C2465	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2424	1-163-275-11 CERAMIC CHIP 1000PF	5% 50V		C2466	1-163-231-11 CERAMIC CHIP 15PF	5% 50V
	C2425	1-104-664-11 ELECT 47MF	20% 25V		C2467	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2426	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2468	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2427	1-163-251-11 CERAMIC CHIP 100PF	5% 50V		C2469	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2428	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2470	1-126-933-11 ELECT 100MF	20% 10V
	C2429	1-163-017-00 CERAMIC CHIP 0.0047MF	10% 50V		C2471	1-164-004-11 CERAMIC CHIP 0.1MF	10% 25V
	C2430	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2472	1-164-346-11 CERAMIC CHIP 1MF	16V
	C2431	1-164-346-11 CERAMIC CHIP 1MF	16V		C2473	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2432	1-164-346-11 CERAMIC CHIP 1MF	16V		C2474	1-104-664-11 ELECT 47MF	20% 25V
	C2433	1-164-346-11 CERAMIC CHIP 1MF	16V		C2476	1-163-251-11 CERAMIC CHIP 100PF	5% 50V
	C2434	1-163-251-11 CERAMIC CHIP 100PF	5% 50V		C2478	1-163-121-00 CERAMIC CHIP 150PF	5% 50V
	C2435	1-163-038-00 CERAMIC CHIP 0.1MF	25V		C2480	1-163-038-00 CERAMIC CHIP 0.1MF	25V
	C2436	1-164-346-11 CERAMIC CHIP 1MF	16V		C2481	1-104-664-11 ELECT 47MF	20% 25V
	C2437	1-163-249-11 CERAMIC CHIP 82PF	5% 50V		C2482	1-126-933-11 ELECT 100MF	20% 10V
					C2483	1-163-038-00 CERAMIC CHIP 0.1MF	25V
					C2484	1-164-346-11 CERAMIC CHIP 1MF	16V
					C2485	1-164-346-11 CERAMIC CHIP 1MF	16V
					C2486	1-164-346-11 CERAMIC CHIP 1MF	16V
					C2801	1-163-038-00 CERAMIC CHIP 0.1MF	25V
					C2802	1-104-664-11 ELECT 47MF	20% 25V

P₁

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C2803	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L2409	1-410-210-21	INDUCTOR CHIP	33UH
C2804	1-104-664-11	ELECT 47MF	20% 25V	L2410	1-408-603-31	INDUCTOR	10UH
C2805	1-163-038-00	CERAMIC CHIP 0.1MF	25V	L2801	1-414-194-11	INDUCTOR	33UH
C2806	1-126-967-11	ELECT 47MF	20% 50V	L2802	1-412-010-41	INDUCTOR CHIP	22UH
C2807	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	L2803	1-414-194-11	INDUCTOR	33UH
C2808	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	L2804	1-412-010-41	INDUCTOR CHIP	22UH
C2809	1-163-251-11	CERAMIC CHIP 100PF	5% 50V				
C2810	1-163-243-11	CERAMIC CHIP 47PF	5% 50V				
C2811	1-164-346-11	CERAMIC CHIP 1MF	16V				
C2812	1-164-346-11	CERAMIC CHIP 1MF	16V				
C2813	1-126-964-11	ELECT 10MF	20% 50V				
<CONNECTOR>							
CN2301*1	564-515-11	PLUG, CONNECTOR 12P					
CN2401*1	564-508-11	PLUG, CONNECTOR 5P					
CN2402*1	564-596-11	PLUG, CONNECTOR 15P					
CN2801*1	564-509-11	PLUG, CONNECTOR 6P					
<DIODE>							
D2401	8-719-047-16	DIODE BAS216					
<FERRITE BEAD>							
FB2401	1-414-235-11	INDUCTOR CHIP	0UH				
FB2402	1-414-235-11	INDUCTOR CHIP	0UH				
<FILTER>							
FL2301	1-236-071-11	ENCAPSULATED COMPONENT					
FL2302	1-236-071-11	ENCAPSULATED COMPONENT					
FL2303	1-236-071-11	ENCAPSULATED COMPONENT					
<IC>							
IC2401	8-759-439-64	IC HEF4053BT					
IC2402	8-759-288-85	IC TDA4665T-T					
IC2403	8-759-248-15	IC SDA9187-2XGEG					
IC2404	8-759-468-94	IC SDA9189XGEGA132					
IC2405	8-759-183-35	IC TDA9160A					
IC2406	8-759-278-95	IC BA7606F					
IC2801	8-752-072-94	IC CXA1875AM-T4					
IC2802	8-759-439-64	IC HEF4053BT					
IC2803	8-759-439-64	IC HEF4053BT					
<COIL>							
L2301	1-408-603-31	INDUCTOR	10UH				
L2401	1-408-603-31	INDUCTOR	10UH				
L2402	1-408-603-31	INDUCTOR	10UH				
L2403	1-408-603-31	INDUCTOR	10UH				
L2404	1-408-603-31	INDUCTOR	10UH				
L2405	1-408-603-31	INDUCTOR	10UH				
L2406	1-408-603-31	INDUCTOR	10UH				
L2407	1-410-207-51	INDUCTOR CHIP	18UH				
L2408	1-408-603-31	INDUCTOR	10UH				
<TRANSISTOR>							
Q2301	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2401	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2402	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2403	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2404	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2405	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2406	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2407	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2408	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2409	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2410	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2411	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2412	1-801-806-11	TRANSISTOR DTC144EKA-T146					
Q2413	8-729-901-00	TRANSISTOR DTC124EK					
Q2414	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2415	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2416	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2417	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2418	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2419	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2420	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2421	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2422	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2423	8-729-900-53	TRANSISTOR DTC114EK					
Q2424	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2426	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2427	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2428	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2429	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2430	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2431	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2432	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2801	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2802	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2803	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2804	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2805	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R					
Q2806	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2807	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2808	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2809	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q2810	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
<RESISTOR>							
R2301	1-216-025-00	RES,CHIP	100 5% 1/10W				
R2302	1-216-025-00	RES,CHIP	100 5% 1/10W				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R2303	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2456	1-216-045-00	RES,CHIP	680 5% 1/10W
R2305	1-216-025-00	RES,CHIP	100 5% 1/10W	R2457	1-216-649-11	METAL CHIP	820 0.50%1/10W
R2306	1-216-049-00	RES,CHIP	1K 5% 1/10W				
R2307	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2458	1-216-001-00	RES,CHIP	10 5% 1/10W
R2308	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2459	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R2402	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2460	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2403	1-216-105-00	RES,CHIP	220K 5% 1/10W	R2461	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R2404	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2462	1-216-670-11	METAL CHIP	6.2K 0.50%1/10W
R2405	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R2463	1-216-645-11	METAL CHIP	560 0.50%1/10W
R2406	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2464	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R2407	1-216-039-00	RES,CHIP	390 5% 1/10W	R2465	1-216-073-00	RES,CHIP	10K 5% 1/10W
R2408	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2466	1-216-025-00	RES,CHIP	100 5% 1/10W
R2409	1-216-033-00	RES,CHIP	220 5% 1/10W	R2467	1-216-001-00	RES,CHIP	10 5% 1/10W
R2411	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2468	1-216-025-00	RES,CHIP	100 5% 1/10W
R2412	1-216-031-00	RES,CHIP	180 5% 1/10W	R2469	1-216-025-00	RES,CHIP	100 5% 1/10W
R2413	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2470	1-216-097-00	RES,CHIP	100K 5% 1/10W
R2414	1-216-033-00	RES,CHIP	220 5% 1/10W	R2472	1-216-109-00	RES,CHIP	330K 5% 1/10W
R2415	1-216-101-00	RES,CHIP	150K 5% 1/10W	R2473	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2416	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2474	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2417	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R2475	1-216-039-00	RES,CHIP	390 5% 1/10W
R2418	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2476	1-216-295-00	SHORT	0
R2419	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2477	1-216-295-00	SHORT	0
R2420	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R2478	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2421	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2479	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2422	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2480	1-216-105-00	RES,CHIP	220K 5% 1/10W
R2423	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2481	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R2424	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2483	1-216-041-00	RES,CHIP	470 5% 1/10W
R2425	1-216-047-91	RES,CHIP	820 5% 1/10W	R2484	1-216-025-00	RES,CHIP	100 5% 1/10W
R2426	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2485	1-216-025-00	RES,CHIP	100 5% 1/10W
R2427	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2486	1-216-081-00	RES,CHIP	22K 5% 1/10W
R2428	1-216-033-00	RES,CHIP	220 5% 1/10W	R2487	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2430	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2488	1-216-025-00	RES,CHIP	100 5% 1/10W
R2431	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2489	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2432	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2490	1-216-025-00	RES,CHIP	100 5% 1/10W
R2433	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2491	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2434	1-216-089-00	RES,CHIP	47K 5% 1/10W	R2492	1-216-025-00	RES,CHIP	100 5% 1/10W
R2435	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2493	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2436	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R2494	1-216-295-00	SHORT	0
R2437	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R2495	1-216-025-00	RES,CHIP	100 5% 1/10W
R2438	1-216-025-00	RES,CHIP	100 5% 1/10W	R2496	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2440	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2497	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2441	1-216-025-00	RES,CHIP	100 5% 1/10W	R2498	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2442	1-216-295-00	SHORT	0	R2499	1-216-025-00	RES,CHIP	100 5% 1/10W
R2443	1-216-097-00	RES,CHIP	100K 5% 1/10W	R2500	1-216-295-00	SHORT	0
R2444	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R2501	1-216-025-00	RES,CHIP	100 5% 1/10W
R2445	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2502	1-216-025-00	RES,CHIP	100 5% 1/10W
R2446	1-216-083-00	RES,CHIP	27K 5% 1/10W	R2503	1-216-025-00	RES,CHIP	100 5% 1/10W
R2447	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2801	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
R2448	1-216-047-91	RES,CHIP	820 5% 1/10W	R2802	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2449	1-216-045-00	RES,CHIP	680 5% 1/10W	R2803	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2450	1-216-083-00	RES,CHIP	27K 5% 1/10W	R2804	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R2451	1-216-647-11	METAL CHIP	680 0.50%1/10W	R2805	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2452	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2806	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R2453	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2807	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R2454	1-216-689-11	RES,CHIP	39K 5% 1/10W	R2808	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2455	1-216-047-91	RES,CHIP	820 5% 1/10W	R2809	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
				R2810	1-216-057-00	RES,CHIP	2.2K 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R2811	1-216-049-00	RES,CHIP	1K 5% 1/10W	C110	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R2812	1-216-045-00	RES,CHIP	680 5% 1/10W	C111	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R2813	1-216-295-00	SHORT	0	C112	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
R2814	1-216-025-00	RES,CHIP	100 5% 1/10W	C113	1-104-664-11	ELECT 47MF	20% 25V
R2815	1-216-025-00	RES,CHIP	100 5% 1/10W	C114	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R2816	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	C115	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
R2817	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	C116	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
R2818	1-216-025-00	RES,CHIP	100 5% 1/10W	C117	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
R2819	1-216-025-00	RES,CHIP	100 5% 1/10W	C118	1-104-664-11	ELECT 47MF	20% 25V
R2820	1-216-049-00	RES,CHIP	1K 5% 1/10W	C119	1-104-664-11	ELECT 47MF	20% 25V
R2821	1-216-049-00	RES,CHIP	1K 5% 1/10W	C120	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
R2825	1-216-049-00	RES,CHIP	1K 5% 1/10W	C121	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R2826	1-216-047-91	RES,CHIP	820 5% 1/10W	C122	1-104-664-11	ELECT 47MF	20% 25V
R2827*	1-216-029-00	RES,CHIP	150 5% 1/10W	C123	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R2828	1-216-037-00	RES,CHIP	330 5% 1/10W	C124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R2830	1-216-049-00	RES,CHIP	1K 5% 1/10W	C125	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
R2831	1-216-049-00	RES,CHIP	1K 5% 1/10W	C126	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R2832	1-216-049-00	RES,CHIP	1K 5% 1/10W	C127	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
R2833	1-216-049-00	RES,CHIP	1K 5% 1/10W	C128	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R2834	1-216-047-91	RES,CHIP	820 5% 1/10W	C129	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R2835	1-216-049-00	RES,CHIP	1K 5% 1/10W	C301	1-164-005-11	CERAMIC CHIP 0.47MF	25V
R2836	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	C303	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R2837	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	C304	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
R2838	1-216-295-00	SHORT	0	C305	1-164-505-11	CERAMIC CHIP 2.2MF	16V
R2839	1-216-033-00	RES,CHIP	220 5% 1/10W	C306	1-164-505-11	CERAMIC CHIP 2.2MF	16V
				C307	1-164-505-11	CERAMIC CHIP 2.2MF	16V
<TUNER>				C308	1-163-038-00	CERAMIC CHIP 0.1MF	25V
TU23018-598-373-10 TUNER, FSS BTF-FG431				C309	1-104-664-11	ELECT 47MF	20% 25V
<CRYSTAL>				C310	1-126-962-11	ELECT 3.3MF	20% 50V
X2401 1-760-095-21 VIBRATOR, CRYSTAL				C311	1-126-934-11	ELECT 220MF	20% 16V
X2402 1-567-504-11 OSCILLATOR, CRYSTAL				C312	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
X2403 1-567-505-11 OSCILLATOR, CRYSTAL				C313	1-164-346-11	CERAMIC CHIP 1MF	16V
*****				C316	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
* A-1298-316-AAG BOARD, COMPLETE				C317	1-164-005-11	CERAMIC CHIP 0.47MF	25V
*****				C318	1-164-505-11	CERAMIC CHIP 2.2MF	16V
(HK/MN/SN model)				C319	1-126-964-11	ELECT 10MF	20% 50V
* A-1298-516-AAG BOARD, COMPLETE (ME model)				C321	1-164-346-11	CERAMIC CHIP 1MF	16V
*****				C323	1-126-964-11	ELECT 10MF	20% 50V
<CAPACITOR>				C324	1-163-035-00	CERAMIC CHIP 0.047MF	50V
C101	1-126-933-11	ELECT	100MF 20% 16V	C325	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C102	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C326	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C103	1-163-133-00	CERAMIC CHIP	470PF 5% 50V	C327	1-136-165-00	FILM 0.1MF	5% 50V
C104	1-104-664-11	ELECT	47MF 20% 25V	C328	1-136-165-00	FILM 0.1MF	5% 50V
C105	1-104-664-11	ELECT	47MF 20% 25V	C329	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C106	1-163-038-00	CERAMIC CHIP	0.1MF 25V	C330	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C107	1-163-038-00	CERAMIC CHIP	0.1MF 25V	C331	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C108	1-163-038-00	CERAMIC CHIP	0.1MF 25V	C332	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C109	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V	C333	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C334	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C335	1-104-664-11	ELECT 47MF	20% 25V
				C336	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C337	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C338	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C339	1-104-664-11	ELECT 47MF	20% 25V
				C340	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C341	1-164-005-11	CERAMIC CHIP 0.47MF	25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C342	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C1008	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C343	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1009	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C344	1-163-231-11	CERAMIC CHIP 15PF	5% 50V	C1010	1-163-245-11	CERAMIC CHIP 56PF	5% 50V
C345	1-163-231-11	CERAMIC CHIP 15PF	5% 50V	C1011	1-163-245-11	CERAMIC CHIP 56PF	5% 50V
C346	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C347	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1012	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C348	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1013	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C349	1-104-664-11	ELECT 47MF	20% 25V	C1014	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C350	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1015	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C351	1-126-963-11	ELECT 4.7MF	20% 50V	C1016	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C352	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C353	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1017	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C401	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1018	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C402	1-126-964-11	ELECT 10MF	20% 50V	C1019	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C403	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1020	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C404	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1021	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C405	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1022	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C406	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1023	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C407	1-104-664-11	ELECT 47MF	20% 25V	C1024	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C408	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1025	1-104-664-11	ELECT 47MF	20% 25V
C409	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1026	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C410	1-104-664-11	ELECT 47MF	20% 25V				
C411	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1028	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C412	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1029	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C413	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	C1030	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C414	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C1031	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C415	1-104-664-11	ELECT 47MF	20% 25V	C1032	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C416	1-163-235-11	CERAMIC CHIP 22PF	5% 50V				
C417	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V	C1033	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C418	1-126-964-11	ELECT 10MF	20% 50V	C2001	1-164-346-11	CERAMIC CHIP 1MF	16V
C421	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C2002	1-126-933-11	ELECT 100MF	20% 16V
C422	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C2004	1-164-346-11	CERAMIC CHIP 1MF	16V
C423	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C2005	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C424	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V				
C425	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C2006	1-104-664-11	ELECT 47MF	20% 25V
C426	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C2008	1-104-664-11	ELECT 47MF	20% 25V
C427	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C2009	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C428	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C2010	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C430	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C2011	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C431	1-126-964-11	ELECT 10MF	20% 50V				
C432	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2012	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C433	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2013	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C434	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2014	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C435	1-104-664-11	ELECT 47MF	20% 25V	C2015	1-104-664-11	ELECT 47MF	20% 25V
C436	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2016	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C437	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C438	1-104-664-11	ELECT 47MF	20% 25V	C2017	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C439	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2018	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C440	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2019	1-126-968-11	ELECT 100MF	20% 50V
C441	1-104-664-11	ELECT 47MF	20% 25V	C2020	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C442	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C2022	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C443	1-126-967-11	ELECT 47MF	20% 50V				
C1001	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C2023	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C1002	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C2024	1-126-965-11	ELECT 22MF	20% 50V
C1004	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C2025	1-104-664-11	ELECT 47MF	20% 25V
C1006	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C2026	1-164-005-11	CERAMIC CHIP 0.47MF	25V
				C2027	1-126-965-11	ELECT 22MF	20% 50V
				C2029	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
				C2030	1-164-346-11	CERAMIC CHIP 1MF	16V
				C2031	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
				C2032	1-164-346-11	CERAMIC CHIP 1MF	16V
				C2033	1-126-965-11	ELECT 22MF	20% 50V
				C2035	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
				C2036	1-164-346-11	CERAMIC CHIP 1MF	16V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C2037	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C2094	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C2038	1-164-346-11	CERAMIC CHIP 1MF	16V	C2095	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C2039	1-104-666-11	ELECT 220MF	20% 25V				
C2040	1-164-005-11	CERAMIC CHIP 0.47MF	25V			<CONNECTOR>	
C2041	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	CN101	1-564-505-11	PLUG, CONNECTOR 2P	
C2042	1-164-346-11	CERAMIC CHIP 1MF	16V	CN102	1-695-915-11	TAB (CONTACT)	
C2043	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	CN103	1-695-915-11	TAB (CONTACT)	
C2044	1-164-346-11	CERAMIC CHIP 1MF	16V	CN104	1-695-915-11	TAB (CONTACT)	
C2045	1-126-965-11	ELECT 22MF	20% 50V	CN401*	1-564-515-11	PLUG, CONNECTOR 12P	
C2046	1-164-005-11	CERAMIC CHIP 0.47MF	25V	CN402*	1-564-516-11	PLUG, CONNECTOR 13P	
C2047	1-126-935-11	ELECT 470MF	20% 16V	CN403*	1-564-511-11	PLUG, CONNECTOR 8P	
C2048	1-163-038-00	CERAMIC CHIP 0.1MF	25V	CN405*	1-564-510-11	PLUG, CONNECTOR 7P	
C2049	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	CN407*	1-564-596-11	PLUG, CONNECTOR 15P	
C2050	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	CN408	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
C2051	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	CN1002*	1-564-515-11	PLUG, CONNECTOR 12P	
C2052	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V	CN2001*	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P	
C2053	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V	CN2004*	1-564-507-11	PLUG, CONNECTOR 4P	
C2054	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C2055	1-104-664-11	ELECT 47MF	20% 25V			<DIODE>	
C2056	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D101	8-719-988-62	DIODE 1SS355	
C2057	1-104-664-11	ELECT 47MF	20% 25V	D102	8-719-422-12	DIODE MA8039	
C2059	1-126-964-11	ELECT 10MF	20% 50V	D103	8-719-982-27	DIODE MTZJ-33C	
C2060	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D104	8-719-976-96	DIODE DTZ4.7C	
C2061	1-126-934-11	ELECT 220MF	20% 16V	D306	8-719-988-62	DIODE 1SS355	
C2062	1-126-965-11	ELECT 22MF	20% 50V	D307	8-719-988-62	DIODE 1SS355	
C2063	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D402	8-719-047-16	DIODE BAS216	
C2064	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D403	8-719-977-22	DIODE DTZ9.1	
C2065	1-126-965-11	ELECT 22MF	20% 50V	D414	8-719-988-62	DIODE 1SS355	
C2066	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D2001	8-719-977-22	DIODE DTZ9.1	
C2067	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D2002	8-719-977-22	DIODE DTZ9.1	
C2068	1-104-664-11	ELECT 47MF	20% 25V	D2003	8-719-977-22	DIODE DTZ9.1	
C2069	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	D2004	8-719-977-22	DIODE DTZ9.1	
C2070	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	D2005	8-719-977-22	DIODE DTZ9.1	
C2071	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D2006	8-719-977-22	DIODE DTZ9.1	
C2072	1-126-962-11	ELECT 3.3MF	20% 50V	D2007	8-719-977-22	DIODE DTZ9.1	
C2073	1-126-964-11	ELECT 10MF	20% 50V	D2008	8-719-977-22	DIODE DTZ9.1	
C2074	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D2009	8-719-977-22	DIODE DTZ9.1	
C2075	1-163-131-00	CERAMIC CHIP 390PF	5% 50V	D2010	8-719-977-22	DIODE DTZ9.1	
C2076	1-163-131-00	CERAMIC CHIP 390PF	5% 50V	D2011	8-719-977-22	DIODE DTZ9.1	
C2077	1-126-964-11	ELECT 10MF	20% 50V	D2012	8-719-977-22	DIODE DTZ9.1	
C2078	1-126-964-11	ELECT 10MF	20% 50V	D2013	8-719-977-22	DIODE DTZ9.1	
C2079	1-104-664-11	ELECT 47MF	20% 25V	D2014	8-719-977-22	DIODE DTZ9.1	
C2080	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D2015	8-719-047-16	DIODE BAS216	
C2081	1-163-251-11	CERAMIC CHIP 100PF	5% 50V			<FERRITE BEAD>	
C2082	1-164-005-11	CERAMIC CHIP 0.47MF	25V	FB401	1-414-235-11	INDUCTOR CHIP	0UH
C2083	1-163-038-00	CERAMIC CHIP 0.1MF	25V	FB402	1-414-235-11	INDUCTOR CHIP	0UH
C2084	1-126-965-11	ELECT 22MF	20% 50V	FB403	1-414-235-11	INDUCTOR CHIP	0UH
C2085	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	FB404	1-414-235-11	INDUCTOR CHIP	0UH
C2086	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	FB405	1-414-235-11	INDUCTOR CHIP	0UH
C2087	1-163-007-11	CERAMIC CHIP 680PF	10% 50V	FB406	1-414-235-11	INDUCTOR CHIP	0UH
C2088	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	FB407	1-414-235-11	INDUCTOR CHIP	0UH
C2089	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	FB2001	1-414-235-11	INDUCTOR CHIP	0UH
C2090	1-163-007-11	CERAMIC CHIP 680PF	10% 50V	FB2002	1-414-235-11	INDUCTOR CHIP	0UH
C2091	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C2092	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C2093	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				

<RESISTOR>



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R113	1-216-041-00	RES,CHIP	470 5% 1/10W	R358	1-216-025-00	RES,CHIP	100 5% 1/10W
R114	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R359	1-216-025-00	RES,CHIP	100 5% 1/10W
R115	1-216-049-00	RES,CHIP	1K 5% 1/10W	R360	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R116	1-216-025-00	RES,CHIP	100 5% 1/10W	R361	1-216-033-00	RES,CHIP	220 5% 1/10W
R117	1-216-025-00	RES,CHIP	100 5% 1/10W				
R118	1-216-037-00	RES,CHIP	330 5% 1/10W	R362	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R119	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R363	1-216-025-00	RES,CHIP	100 5% 1/10W
R120	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R365	1-216-049-00	RES,CHIP	1K 5% 1/10W
R121	1-216-095-00	RES,CHIP	82K 5% 1/10W	R366	1-216-049-00	RES,CHIP	1K 5% 1/10W
R122	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R367	1-216-093-00	RES,CHIP	68K 5% 1/10W
R123	1-208-845-11	RES,CHIP	1M 5% 1/10W	R368	1-216-133-00	RES,CHIP	3.3M 5% 1/10W
R124	1-216-081-00	RES,CHIP	22K 5% 1/10W	R369	1-216-025-00	RES,CHIP	100 5% 1/10W
R125	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R370	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R126	1-216-073-00	RES,CHIP	10K 5% 1/10W	R371	1-216-073-00	RES,CHIP	10K 5% 1/10W
R127	1-216-097-00	RES,CHIP	100K 5% 1/10W	R372	1-216-073-00	RES,CHIP	10K 5% 1/10W
R192	1-216-049-00	RES,CHIP	1K 5% 1/10W	R374	1-216-295-00	SHORT	0
R193	1-216-049-00	RES,CHIP	1K 5% 1/10W	R375	1-216-105-00	RES,CHIP	220K 5% 1/10W
R194	1-216-049-00	RES,CHIP	1K 5% 1/10W	R401	1-216-049-00	RES,CHIP	1K 5% 1/10W
R195	1-216-049-00	RES,CHIP	1K 5% 1/10W	R402	1-216-049-00	RES,CHIP	1K 5% 1/10W
R301	1-216-049-00	RES,CHIP	1K 5% 1/10W	R403	1-216-049-00	RES,CHIP	1K 5% 1/10W
R303	1-216-025-00	RES,CHIP	100 5% 1/10W	R404	1-216-025-00	RES,CHIP	100 5% 1/10W
R304	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R405	1-216-025-00	RES,CHIP	100 5% 1/10W
R305	1-216-109-00	RES,CHIP	330K 5% 1/10W	R406	1-216-025-00	RES,CHIP	100 5% 1/10W
R308	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R407	1-216-025-00	RES,CHIP	100 5% 1/10W
R309	1-216-089-00	RES,CHIP	47K 5% 1/10W	R408	1-216-025-00	RES,CHIP	100 5% 1/10W
R310	1-216-089-00	RES,CHIP	47K 5% 1/10W	R409	1-216-025-00	RES,CHIP	100 5% 1/10W
R311	1-216-025-00	RES,CHIP	100 5% 1/10W	R410	1-216-025-00	RES,CHIP	100 5% 1/10W
R315	1-216-049-00	RES,CHIP	1K 5% 1/10W	R411	1-216-025-00	RES,CHIP	100 5% 1/10W
R316	1-216-049-00	RES,CHIP	1K 5% 1/10W	R412	1-216-025-00	RES,CHIP	100 5% 1/10W
R317	1-216-025-00	RES,CHIP	100 5% 1/10W	R413	1-216-295-00	SHORT	0
R318	1-216-025-00	RES,CHIP	100 5% 1/10W	R414	1-216-073-00	RES,CHIP	10K 5% 1/10W
R319	1-216-025-00	RES,CHIP	100 5% 1/10W	R417	1-216-295-00	SHORT	0
R320	1-216-025-00	RES,CHIP	100 5% 1/10W	R418	1-216-033-00	RES,CHIP	220 5% 1/10W
R321	1-216-025-00	RES,CHIP	100 5% 1/10W	R419	1-216-652-11	METAL CHIP	1.1K 0.50% 1/10W
R322	1-216-025-00	RES,CHIP	100 5% 1/10W	R420	1-216-081-00	RES,CHIP	22K 5% 1/10W
R323	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R421	1-216-049-00	RES,CHIP	1K 5% 1/10W
R324	1-216-049-00	RES,CHIP	1K 5% 1/10W	R422	1-216-041-00	RES,CHIP	470 5% 1/10W
R325	1-216-025-00	RES,CHIP	100 5% 1/10W	R423	1-216-049-00	RES,CHIP	1K 5% 1/10W
R329	1-216-125-00	RES,CHIP	1.5M 5% 1/10W	R424	1-216-033-00	RES,CHIP	220 5% 1/10W
R331	1-216-041-00	RES,CHIP	470 5% 1/10W	R425	1-216-041-00	RES,CHIP	470 5% 1/10W
R332	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R426	1-216-049-00	RES,CHIP	1K 5% 1/10W
R333	1-216-033-00	RES,CHIP	220 5% 1/10W	R427	1-216-077-00	RES,CHIP	15K 5% 1/10W
R334	1-216-295-00	SHORT	0	R428	1-216-025-00	RES,CHIP	100 5% 1/10W
R338	1-216-025-00	RES,CHIP	100 5% 1/10W	R429	1-216-025-00	RES,CHIP	100 5% 1/10W
R339	1-216-025-00	RES,CHIP	100 5% 1/10W	R430	1-216-025-00	RES,CHIP	100 5% 1/10W
R340	1-216-295-00	SHORT	0	R431	1-216-025-00	RES,CHIP	100 5% 1/10W
R341	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R432	1-216-001-00	RES,CHIP	10 5% 1/10W
R348	1-216-077-00	RES,CHIP	15K 5% 1/10W	R433	1-216-001-00	RES,CHIP	10 5% 1/10W
R349	1-216-644-11	METAL CHIP	510 0.50% 1/10W	R434	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R350	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R435	1-216-025-00	RES,CHIP	100 5% 1/10W
R352	1-216-033-00	RES,CHIP	220 5% 1/10W	R437	1-216-025-00	RES,CHIP	100 5% 1/10W
R353	1-216-033-00	RES,CHIP	220 5% 1/10W	R440	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R354	1-216-049-00	RES,CHIP	1K 5% 1/10W	R441	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R355	1-216-033-00	RES,CHIP	220 5% 1/10W	R442	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R356	1-216-025-00	RES,CHIP	100 5% 1/10W	R443	1-216-043-91	RES,CHIP	560 5% 1/10W
R357	1-216-025-00	RES,CHIP	100 5% 1/10W	R444	1-216-295-00	SHORT	0
				R445	1-216-049-00	RES,CHIP	1K 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R446	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1032	1-216-073-00	RES,CHIP	10K 5% 1/10W
R447	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1033	1-216-295-00	SHORT	0
R448	1-216-049-00	RES,CHIP	1K 5% 1/10W				
R449	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1035	1-216-049-00	RES,CHIP	1K 5% 1/10W
R450	1-216-295-00	SHORT	0	R1036	1-216-025-00	RES,CHIP	100 5% 1/10W
R451	1-216-017-00	RES,CHIP	47 5% 1/10W	R1038	1-216-025-00	RES,CHIP	100 5% 1/10W
R452	1-216-025-00	RES,CHIP	100 5% 1/10W	R1039	1-216-025-00	RES,CHIP	100 5% 1/10W
R453	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1040	1-216-025-00	RES,CHIP	100 5% 1/10W
R454	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1041	1-216-025-00	RES,CHIP	100 5% 1/10W
R455	1-216-025-00	RES,CHIP	100 5% 1/10W	R1042	1-216-025-00	RES,CHIP	100 5% 1/10W
R456	1-216-025-00	RES,CHIP	100 5% 1/10W	R1043	1-216-025-00	RES,CHIP	100 5% 1/10W
R457	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1044	1-216-025-00	RES,CHIP	100 5% 1/10W
R458	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R1047	1-216-025-00	RES,CHIP	100 5% 1/10W
R459	1-216-045-00	RES,CHIP	680 5% 1/10W	R1048	1-216-049-00	RES,CHIP	1K 5% 1/10W
R460	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1050	1-216-049-00	RES,CHIP	1K 5% 1/10W
R461	1-216-043-91	RES,CHIP	560 5% 1/10W	R1051	1-216-025-00	RES,CHIP	100 5% 1/10W
R462	1-216-039-00	RES,CHIP	390 5% 1/10W	R1052	1-216-025-00	RES,CHIP	100 5% 1/10W
R463	1-216-025-00	RES,CHIP	100 5% 1/10W	R1053	1-216-025-00	RES,CHIP	100 5% 1/10W
R464	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1054	1-216-049-00	RES,CHIP	1K 5% 1/10W
R465	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R1055	1-216-025-00	RES,CHIP	100 5% 1/10W
R466	1-216-045-00	RES,CHIP	680 5% 1/10W	R1056	1-216-025-00	RES,CHIP	100 5% 1/10W
R467	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1057	1-216-025-00	RES,CHIP	100 5% 1/10W
R468	1-216-033-00	RES,CHIP	220 5% 1/10W	R1058	1-216-025-00	RES,CHIP	100 5% 1/10W
R469	1-216-043-91	RES,CHIP	560 5% 1/10W	R1060	1-216-025-00	RES,CHIP	100 5% 1/10W
R470	1-216-033-00	RES,CHIP	220 5% 1/10W	R1061	1-216-025-00	RES,CHIP	100 5% 1/10W
R471	1-216-025-00	RES,CHIP	100 5% 1/10W	R1062	1-216-025-00	RES,CHIP	100 5% 1/10W
R472	1-216-033-00	RES,CHIP	220 5% 1/10W	R1064	1-216-073-00	RES,CHIP	10K 5% 1/10W
R473	1-216-025-00	RES,CHIP	100 5% 1/10W	R1065	1-216-073-00	RES,CHIP	10K 5% 1/10W
R474	1-216-025-00	RES,CHIP	100 5% 1/10W	R1066	1-216-073-00	RES,CHIP	10K 5% 1/10W
R475	1-216-025-00	RES,CHIP	100 5% 1/10W	R1067	1-216-073-00	RES,CHIP	10K 5% 1/10W
R476	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1068	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1005	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R1069	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1006	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R1070	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1007	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1071	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1008	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1072	1-216-025-00	RES,CHIP	100 5% 1/10W
R1009	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R2001	1-216-025-00	RES,CHIP	100 5% 1/10W
R1010	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R2002	1-216-039-00	RES,CHIP	390 5% 1/10W
R1011	1-216-025-00	RES,CHIP	100 5% 1/10W	R2003	1-216-025-00	RES,CHIP	100 5% 1/10W
R1012	1-216-025-00	RES,CHIP	100 5% 1/10W	R2004	1-216-039-00	RES,CHIP	390 5% 1/10W
R1013	1-216-025-00	RES,CHIP	100 5% 1/10W	R2005	1-216-025-00	RES,CHIP	100 5% 1/10W
R1014	1-216-025-00	RES,CHIP	100 5% 1/10W	R2006	1-216-041-00	RES,CHIP	470 5% 1/10W
R1015	1-216-025-00	RES,CHIP	100 5% 1/10W	R2007	1-216-025-00	RES,CHIP	100 5% 1/10W
R1016	1-216-025-00	RES,CHIP	100 5% 1/10W	R2008	1-216-041-00	RES,CHIP	470 5% 1/10W
R1017	1-216-025-00	RES,CHIP	100 5% 1/10W	R2009	1-216-025-00	RES,CHIP	100 5% 1/10W
R1018	1-216-025-00	RES,CHIP	100 5% 1/10W	R2010	1-216-025-00	RES,CHIP	100 5% 1/10W
R1019	1-216-025-00	RES,CHIP	100 5% 1/10W	R2012	1-216-025-00	RES,CHIP	100 5% 1/10W
R1020	1-216-025-00	RES,CHIP	100 5% 1/10W	R2013	1-216-025-00	RES,CHIP	100 5% 1/10W
R1022	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R2014	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1023	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R2015	1-216-025-00	RES,CHIP	100 5% 1/10W
R1024	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R2016	1-216-097-00	RES,CHIP	100K 5% 1/10W
R1025	1-216-033-00	RES,CHIP	220 5% 1/10W	R2017	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1026	1-216-049-00	RES,CHIP	1K 5% 1/10W	R2018	1-216-025-00	RES,CHIP	100 5% 1/10W
R1027	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R2019	1-216-097-00	RES,CHIP	100K 5% 1/10W
R1028	1-216-025-00	RES,CHIP	100 5% 1/10W	R2020	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1029	1-216-025-00	RES,CHIP	100 5% 1/10W	R2022	1-216-022-00	RES,CHIP	75 5% 1/10W
R1030	1-216-295-00	SHORT	0	R2023	1-216-033-00	RES,CHIP	220 5% 1/10W
				R2024	1-216-025-00	RES,CHIP	100 5% 1/10W




The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R2025	1-216-025-00	RES,CHIP	100 5% 1/10W	R2083	1-216-048-00	RES,CHIP	910 5% 1/10W
R2026	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R2084	1-216-041-00	RES,CHIP	470 5% 1/10W
R2027	1-216-033-00	RES,CHIP	220 5% 1/10W	R2085	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R2028	1-216-025-00	RES,CHIP	100 5% 1/10W	R2086	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R2029	1-216-022-00	RES,CHIP	75 5% 1/10W	R2087	1-216-049-00	RES,CHIP	1K 5% 1/10W
R2030	1-216-065-00	RES,CHIP	4.7K 5% 1/10W				
R2031	1-216-025-00	RES,CHIP	100 5% 1/10W	R2088	1-216-089-00	RES,CHIP	47K 5% 1/10W
R2032	1-216-022-00	RES,CHIP	75 5% 1/10W	R2089	1-216-089-00	RES,CHIP	47K 5% 1/10W
R2033	1-216-033-00	RES,CHIP	220 5% 1/10W	R2090	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2034	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R2091	1-216-089-00	RES,CHIP	47K 5% 1/10W
R2035	1-216-025-00	RES,CHIP	100 5% 1/10W	R2092	1-216-089-00	RES,CHIP	47K 5% 1/10W
R2036	1-216-113-00	RES,CHIP	470K 5% 1/10W	R2093	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2037	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R2094	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2038	1-216-025-00	RES,CHIP	100 5% 1/10W	R2095	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2039	1-216-113-00	RES,CHIP	470K 5% 1/10W	R2096	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2040	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R2097	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2041	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2098	1-216-025-00	RES,CHIP	100 5% 1/10W
R2042	1-216-022-00	RES,CHIP	75 5% 1/10W	R2099	1-216-025-00	RES,CHIP	100 5% 1/10W
R2043	1-216-033-00	RES,CHIP	220 5% 1/10W	R2100	1-216-025-00	RES,CHIP	100 5% 1/10W
R2044	1-216-033-00	RES,CHIP	220 5% 1/10W	R2101	1-216-295-00	SHORT	0
R2045	1-216-033-00	RES,CHIP	220 5% 1/10W	R2102	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R2046	1-216-073-00	RES,CHIP	10K 5% 1/10W	R2103	1-216-025-00	RES,CHIP	100 5% 1/10W
R2047	1-216-113-00	RES,CHIP	470K 5% 1/10W	R3301	1-216-295-00	SHORT	0
R2048	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R3302	1-216-295-00	SHORT	0
R2049	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3303	1-216-295-00	SHORT	0
R2050	1-216-025-00	RES,CHIP	100 5% 1/10W	R3390	1-216-039-00	RES,CHIP	390 5% 1/10W
R2051	1-216-113-00	RES,CHIP	470K 5% 1/10W				
R2052	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	<TUNER>			
R2053	1-216-023-00	RES,CHIP	82 5% 1/10W	TU101	8-598-372-10	TUNER, FSS BTF-FG441	
R2054	1-216-048-00	RES,CHIP	910 5% 1/10W				
R2056	1-216-041-00	RES,CHIP	470 5% 1/10W	<CRYSTAL>			
R2057	1-216-113-00	RES,CHIP	470K 5% 1/10W	X301	1-767-127-11	VIBRATOR, CERAMIC	
R2058	1-216-089-00	RES,CHIP	47K 5% 1/10W	X302	1-567-504-11	OSCILLATOR, CRYSTAL	
R2059	1-216-113-00	RES,CHIP	470K 5% 1/10W	X303	1-567-505-11	OSCILLATOR, CRYSTAL	
R2060	1-216-089-00	RES,CHIP	47K 5% 1/10W	X1001	1-577-358-21	VIBRATOR, CERAMIC	
R2061	1-216-041-00	RES,CHIP	470 5% 1/10W	X2001	1-760-628-11	VIBRATOR, CRYSTAL	
R2063	1-216-113-00	RES,CHIP	470K 5% 1/10W				
R2064	1-216-021-00	RES,CHIP	68 5% 1/10W	*****			
R2065	1-216-033-00	RES,CHIP	220 5% 1/10W	* A-1316-354-AG BOARD, COMPLETE			
R2066	1-216-039-00	RES,CHIP	390 5% 1/10W	*****			
R2067	1-216-089-00	RES,CHIP	47K 5% 1/10W				
R2068	1-216-295-00	SHORT	0				
R2069	1-216-039-00	RES,CHIP	390 5% 1/10W				
R2070	1-216-089-00	RES,CHIP	47K 5% 1/10W				
R2071	1-216-295-00	SHORT	0				
R2072	1-216-025-00	RES,CHIP	100 5% 1/10W				
R2073	1-216-025-00	RES,CHIP	100 5% 1/10W	<CAPACITOR>			
R2074	1-216-025-00	RES,CHIP	100 5% 1/10W	C6001 Δ	1-119-894-51	CERAMIC	2200PF 20% 250V
R2075	1-216-025-00	RES,CHIP	100 5% 1/10W	C6002 Δ	1-104-708-51	FILM	0.47MF 20% 250V
R2076	1-216-025-00	RES,CHIP	100 5% 1/10W	C6003	1-126-943-11	ELECT	2200MF 20% 25V
R2077	1-216-025-00	RES,CHIP	100 5% 1/10W	C6004	1-104-665-11	ELECT	100MF 20% 25V
R2078	1-249-389-11	CARBON	4.7 5% 1/4W F	C6006 Δ	1-104-706-51	FILM	0.22MF 20% 250V
R2079	1-216-049-00	RES,CHIP	1K 5% 1/10W	C6007 Δ	1-119-894-51	CERAMIC	2200PF 20% 250V
R2080	1-216-073-00	RES,CHIP	10K 5% 1/10W	C6009	1-102-114-00	CERAMIC	470PF 10% 50V
R2081	1-216-089-00	RES,CHIP	47K 5% 1/10W	C6010	1-102-112-00	CERAMIC	330PF 10% 50V
R2082	1-216-089-00	RES,CHIP	47K 5% 1/10W	C6011	1-107-678-11	ELECT	4.7MF 20% 450V
				C6012	1-102-112-00	CERAMIC	330PF 10% 50V




REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
C6013	1-117-227-11	FILM	1MF	10%	450V	CN6008*1-564-509-11	PLUG, CONNECTOR 6P	
C6014	1-126-968-11	ELECT	100MF	20%	50V	CN6009	1-695-915-11	TAB (CONTACT)
C6016	1-126-964-11	ELECT	10MF	20%	50V	CN6011*1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	
C6018	1-119-868-11	ELECT	820MF	20%	450V	CN6012*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
C6019	1-104-664-11	ELECT	47MF	20%	25V	CN6013*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
C6020	1-104-665-11	ELECT	100MF	20%	25V			
C6021	1-126-961-11	ELECT	2.2MF	20%	50V		<DIODE>	
C6022	1-137-370-11	FILM	0.01MF	5%	50V	D6001	8-719-110-31	DIODE RD12ESB2
C6023	1-102-112-00	CERAMIC	330PF	10%	50V	D6002	8-719-052-91	DIODE D4SBS4-F
C6024	1-126-960-11	ELECT	1MF	20%	50V	D6003	8-719-022-99	DIODE D6SB60L
C6025	1-136-165-00	FILM	0.1MF	5%	50V	D6004	8-719-057-96	DIODE D10SC6M-4012
C6026	1-104-665-11	ELECT	100MF	20%	25V	D6005	8-719-921-88	DIODE MTZJ-13B
C6028	1-164-625-11	CERAMIC	680PF	10%	500V			
C6029	1-164-625-11	CERAMIC	680PF	10%	500V	D6006	8-719-991-33	DIODE 1SS133T-77
C6030	1-115-405-11	FILM	0.039MF	3%	1KV	D6007	8-719-911-55	DIODE U05G
C6031	1-126-964-11	ELECT	10MF	20%	50V	D6008	8-719-979-64	DIODE UF4005PKG23
C6032	1-126-964-11	ELECT	10MF	20%	50V	D6009	8-719-059-23	DIODE P6KE200AG23
C6033	1-136-479-11	FILM	0.001MF	2%	50V	D6010	8-719-028-72	DIODE RGP02-17EL-6433
C6034	1-101-810-00	CERAMIC	100PF	5%	500V			
C6035	1-101-810-00	CERAMIC	100PF	5%	500V	D6011	8-719-982-26	DIODE MTZJ-33B
C6036	1-126-768-11	ELECT	2200MF	20%	16V	D6012	8-719-991-33	DIODE 1SS133T-77
C6037	1-126-943-11	ELECT	2200MF	20%	25V	D6013	8-719-110-03	DIODE RD7.5ESB2
C6038	1-128-548-11	ELECT	4700MF	20%	25V	D6014	8-719-991-33	DIODE 1SS133T-77
C6039	1-126-972-11	ELECT	1000MF	20%	50V	D6015	8-719-991-33	DIODE 1SS133T-77
C6040	1-126-972-11	ELECT	1000MF	20%	50V			
C6041	1-126-960-11	ELECT	1MF	20%	50V	D6016	8-719-991-33	DIODE 1SS133T-77
C6042	1-104-665-11	ELECT	100MF	20%	25V	D6017	8-719-510-64	DIODE S2LA20F
C6043	1-126-964-11	ELECT	10MF	20%	50V	D6018	8-719-991-33	DIODE 1SS133T-77
C6044	1-107-641-11	ELECT	220MF	20%	160V	D6019	8-719-991-33	DIODE 1SS133T-77
C6045	1-104-665-11	ELECT	100MF	20%	25V	D6020	8-719-991-33	DIODE 1SS133T-77
C6046	1-104-665-11	ELECT	100MF	20%	25V			
C6047	1-102-112-00	CERAMIC	330PF	10%	50V	D6021	8-719-979-64	DIODE UF4005PKG23
C6048	1-126-960-11	ELECT	1MF	20%	50V	D6022	8-719-110-53	DIODE RD20ESB2
C6049	1-136-165-00	FILM	0.1MF	5%	50V	D6023	8-719-979-64	DIODE UF4005PKG23
C6050	1-109-954-11	ELECT	0.47MF	20%	160V	D6024	8-719-110-53	DIODE RD20ESB2
						D6025	8-719-510-64	DIODE S2LA20F
C6051	1-126-935-11	ELECT	470MF	20%	6.3V			
C6052	1-164-625-11	CERAMIC	680PF	10%	500V	D6026	8-719-110-53	DIODE RD20ESB2
C6053	1-164-625-11	CERAMIC	680PF	10%	500V	D6027	8-719-110-53	DIODE RD20ESB2
C6055	1-107-641-11	ELECT	220MF	20%	160V	D6028	8-719-911-19	DIODE 1SS119-25
C6056	1-137-370-11	FILM	0.01MF	5%	50V	D6032	8-719-991-33	DIODE 1SS133T-77
						D6033	8-719-991-33	DIODE 1SS133T-77
C6058	1-102-114-00	CERAMIC	470PF	10%	50V			
C6059	1-102-114-00	CERAMIC	470PF	10%	50V	D6035	8-719-018-83	DIODE D2S4M
C6060	1-102-114-00	CERAMIC	470PF	10%	50V	D6036	8-719-018-83	DIODE D2S4M
C6061	1-102-114-00	CERAMIC	470PF	10%	50V	D6037	8-719-031-78	DIODE S2L40F
C6062	1-102-114-00	CERAMIC	470PF	10%	50V	D6038	8-719-312-47	DIODE RBA-406B
						D6042	8-719-979-64	DIODE UF4005PKG23
C6063	1-102-114-00	CERAMIC	470PF	10%	50V			
C6064△1-161-964-91	CERAMIC	0.0047MF	250V			D6043	8-719-110-53	DIODE RD20ESB2
C6065△1-161-964-91	CERAMIC	0.0047MF	250V			D6044	8-719-979-64	DIODE UF4005PKG23
						D6045	8-719-110-53	DIODE RD20ESB2
						D6046	8-719-110-53	DIODE RD20ESB2
						D6047	8-719-110-53	DIODE RD20ESB2
						D6048	8-719-921-88	DIODE MTZJ-13B
						D6049	8-719-031-78	DIODE S2L40F
						D6050	8-719-991-33	DIODE 1SS133T-77
						D6051	8-719-991-33	DIODE 1SS133T-77



The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<FERRITE BEAD>				<RESISTOR>			
FB60091	410-397-21	FERRITE	1.1UH	R6000	△1-202-885-91	SOLID	1M 20% 1/2W
				R6001	1-216-049-00	RES,CHIP	1K 5% 1/10W
				R6002	△1-218-265-21	METAL	8.2M 5% 1W
<IC>				R6003	1-216-683-11	METAL CHIP	22K 0.50%1/10W
IC6001	△8-759-468-89	IC TOP209P		R6004	1-215-481-00	METAL	330K 1% 1/4W
IC6002	8-759-103-93	IC UPC393C		R6005	1-215-481-00	METAL	330K 1% 1/4W
IC6003	8-759-185-47	IC IR2112		R6006	1-215-482-00	METAL	360K 1% 1/4W
IC6004	8-759-077-25	IC IR3M02A		R6007	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
IC6005	8-749-010-64	PHOTO COUPLER PC123F2		R6008	1-216-099-00	RES,CHIP	120K 5% 1/10W
IC6006	8-749-010-64	PHOTO COUPLER PC123F2		R6009	1-247-889-00	CARBON	270K 5% 1/4W
IC6007	8-759-185-47	IC IR2112		R6010	1-247-889-00	CARBON	270K 5% 1/4W
IC6008	8-749-920-61	IC SE-135N		R6011	1-216-675-11	METAL CHIP	10K 0.50%1/10W
				R6012	1-216-657-11	METAL CHIP	1.8K 0.50%1/10W
				R6013	1-202-962-11	CEMENTED	3.3 5% 10W
				R6014	1-216-089-00	RES,CHIP	47K 5% 1/10W
<COIL>							
L6002	1-412-525-31	INDUCTOR	10UH	R6015	1-247-895-00	CARBON	470K 5% 1/4W
L6003	1-412-525-31	INDUCTOR	10UH	R6016	1-216-089-00	RES,CHIP	47K 5% 1/10W
L6004	1-412-525-31	INDUCTOR	10UH	R6017	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
L6005	1-412-525-31	INDUCTOR	10UH	R6018	1-216-089-00	RES,CHIP	47K 5% 1/10W
L6006	1-412-525-31	INDUCTOR	10UH	R6019	1-216-089-00	RES,CHIP	47K 5% 1/10W
L6008	1-412-533-21	INDUCTOR	47UH	R6020	1-216-691-11	METAL CHIP	47K 0.50%1/10W
L6009	1-412-523-41	INDUCTOR	6.8UH	R6021	1-216-081-00	RES,CHIP	22K 5% 1/10W
L6010	1-412-523-41	INDUCTOR	6.8UH	R6022	1-247-791-91	CARBON	22 5% 1/4W
L6011	1-412-525-31	INDUCTOR	10UH	R6023	1-216-049-00	RES,CHIP	1K 5% 1/10W
L6012	1-406-971-21	INDUCTOR	0UH	R6024	△1-141-598-11	CEMENTED	0.22 5% 10W
				R6025	1-249-402-11	CARBON	56 5% 1/4W F
<IC LINK>				R6026	△1-141-598-11	CEMENTED	0.22 5% 10W
PS6001	△1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)		R6027	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
PS6002	△1-533-595-31	LINK, IC (3.15A/90V AC, 60V DC)		R6028	1-249-437-11	CARBON	47K 5% 1/4W
PS6003	△1-533-597-31	LINK, IC (5A/90V AC, 60V DC)		R6029	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
				R6030	1-216-049-00	RES,CHIP	1K 5% 1/10W
<TRANSISTOR>				R6031	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q6001	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R6033	△1-220-886-61	FUSIBLE	0.1 10% 1W F
Q6002	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R6034	1-216-113-00	RES,CHIP	470K 5% 1/10W
Q6003	8-729-216-22	TRANSISTOR 2SA1162-G		R6035	1-216-049-00	RES,CHIP	1K 5% 1/10W
Q6004	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q6005	8-729-216-22	TRANSISTOR 2SA1162-G		R6036	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R6037	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
Q6006	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R6038	1-216-295-00	SHORT	0
Q6007	8-729-028-10	TRANSISTOR IRFI744G-LF		R6039	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q6008	8-729-028-10	TRANSISTOR IRFI744G-LF		R6040	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q6009	8-729-140-97	TRANSISTOR 2SB734-34					
Q6010	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R6041	1-249-397-11	CARBON	22 5% 1/4W F
				R6042	1-249-397-11	CARBON	22 5% 1/4W F
Q6011	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R6043	1-249-425-11	CARBON	4.7K 5% 1/4W F
Q6012	8-729-216-22	TRANSISTOR 2SA1162-G		R6044	1-249-425-11	CARBON	4.7K 5% 1/4W F
Q6013	8-729-820-82	TRANSISTOR 2SA1128-T		R6045	1-216-657-11	METAL CHIP	1.8K 0.50%1/10W
Q6014	8-729-028-10	TRANSISTOR IRFI744G-LF					
Q6015	8-729-028-10	TRANSISTOR IRFI744G-LF		R6046	1-216-081-00	RES,CHIP	22K 5% 1/10W
				R6047	1-249-437-11	CARBON	47K 5% 1/4W
Q6016	8-729-216-22	TRANSISTOR 2SA1162-G		R6048	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
Q6017	8-729-216-22	TRANSISTOR 2SA1162-G		R6049	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q6018	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R6050	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R6051	1-216-674-11	METAL CHIP	9.1K 0.50%1/10W
				R6052	1-216-049-00	RES,CHIP	1K 5% 1/10W
				R6053	1-249-417-11	CARBON	1K 5% 1/4W
				R6054	1-216-049-00	RES,CHIP	1K 5% 1/10W
				R6055	1-216-065-00	RES,CHIP	4.7K 5% 1/10W

[illegible]

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<SPARK GAP>				R736	1-249-425-11	CARBON	4.7K 5% 1/4W
SG701	1-519-422-11	GAP, SPARK		R737	1-260-099-11	CARBON	1K 5% 1/2W
SG702	1-519-422-11	GAP, SPARK		R738	1-249-408-11	CARBON	180 5% 1/4W
SG703	1-519-422-11	GAP, SPARK		R739	1-260-133-11	CARBON	680K 5% 1/2W
*****				R740	1-202-818-00	SOLID	1K 20% 1/2W
* A-1331-735-ACG BOARD, COMPELTE				R741	1-249-393-11	CARBON	10 5% 1/4W
*****				R742	1-247-815-91	CARBON	220 5% 1/4W
<CAPACITOR>				R744	1-247-891-00	CARBON	330K 5% 1/4W
C733	1-162-114-00	CERAMIC	0.0047MF 2KV	R745	1-247-843-11	CARBON	3.3K 5% 1/4W
C734	1-102-114-00	CERAMIC	470PF 10% 50V	R746	1-202-814-11	SOLID	33K 20% 1/2W
C735	1-161-830-00	CERAMIC	0.0047MF 500V	<SPARK GAP>			
C736	1-162-115-00	CERAMIC	330PF 10% 2KV	SG731	1-519-422-11	GAP, SPARK	
C737	1-107-662-11	ELECT	22MF 20% 250V	SG732	1-519-422-11	GAP, SPARK	
C738	1-101-880-00	CERAMIC	47PF 5% 50V	SG733	1-519-422-11	GAP, SPARK	
C739	1-104-664-11	ELECT	47MF 20% 25V	*****			
C740	1-102-114-00	CERAMIC	470PF 10% 50V	* A-1331-736-ACB BOARD, COMPELTE			
<CONNECTOR>				*****			
CN731	1-695-915-11	TAB (CONTACT)		<CAPACITOR>			
CN732*	1-564-508-11	PLUG, CONNECTOR 5P		C762	1-126-964-11	ELECT	10MF 20% 50V
CN733*	1-564-511-11	PLUG, CONNECTOR 8P		C763	1-162-114-00	CERAMIC	0.0047MF 2KV
CN734*	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		C764	1-102-112-00	CERAMIC	330PF 10% 50V
CN735△	1-251-182-21	SOCKET, PICTURE TUBE		C765	1-161-830-00	CERAMIC	0.0047MF 500V
CN736*	1-564-512-11	PLUG, CONNECTOR 9P		C766	1-162-115-00	CERAMIC	330PF 10% 2KV
CN737*	1-564-512-11	PLUG, CONNECTOR 9P		C767	1-107-662-11	ELECT	22MF 20% 250V
<DIODE>				C768	1-101-880-00	CERAMIC	47PF 5% 50V
D731	8-719-991-33	DIODE 1SS133T-77		C769	1-104-664-11	ELECT	47MF 20% 25V
D732	8-719-991-33	DIODE 1SS133T-77		C770	1-102-114-00	CERAMIC	470PF 10% 50V
D733	8-719-991-33	DIODE 1SS133T-77		<CONNECTOR>			
D735	8-719-991-33	DIODE 1SS133T-77		CN761	1-695-915-11	TAB (CONTACT)	
D736	8-719-991-33	DIODE 1SS133T-77		CN762*	1-564-508-11	PLUG, CONNECTOR 5P	
<COIL>				CN763*	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
L731	1-408-623-31	INDUCTOR	470UH	CN764△	1-251-182-21	SOCKET, PICTURE TUBE	
L732	1-408-619-31	INDUCTOR	220UH	CN765*	1-564-512-11	PLUG, CONNECTOR 9P	
<TRANSISTOR>				CN766	1-564-513-11	PLUG, CONNECTOR 10P	
Q731	8-729-200-17	TRANSISTOR 2SA1091-O		<DIODE>			
Q732	8-729-326-11	TRANSISTOR 2SC2611		D761	8-719-991-33	DIODE 1SS133T-77	
Q733	8-729-119-78	TRANSISTOR 2SC2785-HFE		D762	8-719-991-33	DIODE 1SS133T-77	
<RESISTOR>				D763	8-719-991-33	DIODE 1SS133T-77	
R731	1-219-743-11	CARBON	100 5% 1/2W	D765	8-719-991-33	DIODE 1SS133T-77	
R732	1-260-132-11	CARBON	560K 5% 1/2W	D766	8-719-991-33	DIODE 1SS133T-77	
R733	1-215-923-00	METAL OXIDE	10K 5% 3W F	<COIL>			
R735	1-247-807-31	CARBON	100 5% 1/4W	L761	1-408-623-31	INDUCTOR	470UH
				L762	1-408-619-31	INDUCTOR	220UH



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>				C3532	1-163-038-00	CERAMIC CHIP 0.1MF	25V
Q761	8-729-200-17	TRANSISTOR 2SA1091-O		C3538	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
Q762	8-729-326-11	TRANSISTOR 2SC2611		<CONNECTOR>			
Q763	8-729-119-78	TRANSISTOR 2SC2785-HFE		CN3501*1-564-508-11PLUG, CONNECTOR 5P			
Q764	8-729-119-76	TRANSISTOR 2SA1175-HFE		CN3502*1-564-515-11PLUG, CONNECTOR 12P			
<RESISTOR>				<DIODE>			
R761	1-219-743-11	CARBON 100	5% 1/2W	D3502	8-719-914-44	DIODE DAP202K	
R762	1-260-132-11	CARBON 560K	5% 1/2W	D3503	8-719-105-46	DIODE RD3.3M-B2	
R763	1-215-923-00	METAL OXIDE 10K	5% 3W F	<FERRITE BEAD>			
R765	1-247-807-31	CARBON 100	5% 1/4W	FB3501	1-410-682-31	INDUCTOR 470UH	
R766	1-260-099-11	CARBON 1K	5% 1/2W	FB3502	1-410-397-21	FERRITE 1.1UH	
R767	1-249-425-11	CARBON 4.7K	5% 1/4W	FB3503	1-410-397-21	FERRITE 1.1UH	
R768	1-260-133-11	CARBON 680K	5% 1/2W	FB3504	1-410-397-21	FERRITE 1.1UH	
R769	1-202-818-00	SOLID 1K	20% 1/2W	FB3505	1-410-397-21	FERRITE 1.1UH	
R770	1-247-815-91	CARBON 220	5% 1/4W	<IC>			
R771	1-219-743-11	CARBON 100	5% 1/2W	IC3501	8-759-476-87	IC SAA5261	
R772	1-249-393-11	CARBON 10	5% 1/4W	<CHIP CONDUCTOR>			
R773	1-249-413-11	CARBON 470	5% 1/4W	JR3501	1-216-295-00	SHORT	0
R774	1-260-131-11	CARBON 470K	5% 1/2W	<TRANSISTOR>			
R775	1-249-427-11	CARBON 6.8K	5% 1/4W	Q3501	8-729-230-49	TRANSISTOR 2SC2712-YG	
R776	1-249-437-11	CARBON 47K	5% 1/4W	Q3502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R777	1-249-427-11	CARBON 6.8K	5% 1/4W	Q3506	8-729-901-00	TRANSISTOR DTC124EK	
R778	1-202-814-11	SOLID 33K	20% 1/2W	Q3507	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R779	1-247-815-91	CARBON 220	5% 1/4W	Q3509	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
<SPARK GAP>				Q3510	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
SG761	1-519-422-11	GAP, SPARK		<RESISTOR>			
SG762	1-519-422-11	GAP, SPARK		R3501	1-216-295-00	SHORT	0
SG763	1-519-422-11	GAP, SPARK		R3504	1-216-295-00	SHORT	0
*****				R3507	1-216-295-00	SHORT	0
* A-1342-410-AV2 BOARD, COMPLETE				R3508	1-216-295-00	SHORT	0
*****				R3509	1-216-295-00	SHORT	0
<CAPACITOR>				R3511	1-216-025-00	RES,CHIP 100	5% 1/10W
C3506	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R3512	1-216-295-00	SHORT	0
C3507	1-126-933-11	ELECT 100MF	20% 16V	R3514	1-216-025-00	RES,CHIP 100	5% 1/10W
C3509	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R3515	1-216-073-00	RES,CHIP 10K	5% 1/10W
C3510	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R3517	1-216-295-00	SHORT	0
C3511	1-126-963-11	ELECT 4.7MF	20% 50V	R3518	1-216-295-00	SHORT	0
C3512	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	R3519	1-216-295-00	SHORT	0
C3513	1-163-239-11	CERAMIC CHIP 33PF	5% 50V	R3522	1-216-295-00	SHORT	0
C3514	1-163-239-11	CERAMIC CHIP 33PF	5% 50V	R3526	1-216-295-00	SHORT	0
C3515	1-109-982-11	CERAMIC CHIP 1MF	10% 10V	R3527	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
C3517	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	R3528	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
C3519	1-163-113-00	CERAMIC CHIP 68PF	5% 50V				
C3522	1-126-967-11	ELECT 47MF	20% 16V				
C3524	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C3525	1-126-933-11	ELECT 100MF	20% 16V				
C3530	1-163-038-00	CERAMIC CHIP 0.1MF	25V				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3529	1-216-049-00	RES,CHIP	1K 5% 1/10W	C1521	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R3533	1-216-025-00	RES,CHIP	100 5% 1/10W	C1523	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
R3535	1-216-295-00	SHORT	0	C1524	1-136-177-00	FILM 1MF	5% 50V
R3539	1-216-025-00	RES,CHIP	100 5% 1/10W				
R3540	1-216-295-00	SHORT	0	C1525	1-104-665-11	ELECT 100MF	20% 25V
R3542	1-216-049-00	RES,CHIP	1K 5% 1/10W	C1526	1-104-664-11	ELECT 47MF	20% 25V
R3544	1-216-295-00	SHORT	0	C1527	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V
R3546	1-216-025-00	RES,CHIP	100 5% 1/10W	C1528	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V
R3547	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	C1529	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V
R3548	1-216-049-00	RES,CHIP	1K 5% 1/10W	C1530	1-126-967-11	ELECT 47MF	20% 16V
R3549	1-216-049-00	RES,CHIP	1K 5% 1/10W	C1531	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R3550	1-216-037-00	RES,CHIP	330 5% 1/10W	C1601	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R3551	1-216-025-00	RES,CHIP	100 5% 1/10W	C1602	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R3552	1-216-025-00	RES,CHIP	100 5% 1/10W	C1603	1-130-495-00	FILM 0.1MF	5% 50V
R3554	1-216-083-00	RES,CHIP	27K 5% 1/10W	C1604	1-130-495-00	FILM 0.1MF	5% 50V
R3555	1-216-049-00	RES,CHIP	1K 5% 1/10W	C1605	1-107-715-11	ELECT 22MF	20% 50V
R3556	1-216-037-00	RES,CHIP	330 5% 1/10W	C1606	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R3557	1-216-295-00	SHORT	0	C1607	1-137-370-11	FILM 0.01MF	5% 50V
R3558	1-216-025-00	RES,CHIP	100 5% 1/10W	C1610	1-126-960-11	ELECT 1MF	20% 50V
R3559	1-216-049-00	RES,CHIP	1K 5% 1/10W	C1611	1-126-960-11	ELECT 1MF	20% 50V
R3560	1-216-037-00	RES,CHIP	330 5% 1/10W	C1612	1-126-960-11	ELECT 1MF	20% 50V
R3563	1-216-049-00	RES,CHIP	1K 5% 1/10W	C1613	1-126-967-11	ELECT 47MF	20% 50V
				C1614	1-126-967-11	ELECT 47MF	20% 50V
				C1617	1-130-495-00	FILM 0.1MF	5% 50V
				C1618	1-130-495-00	FILM 0.1MF	5% 50V
				C1619	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C1621	1-104-665-11	ELECT 100MF	20% 25V
				C1622	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V
				C1624	1-130-495-00	FILM 0.1MF	5% 50V
				C1626	1-130-495-00	FILM 0.1MF	5% 50V
				C1627	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V
				C1628	1-126-964-11	ELECT 10MF	20% 50V
				C1630	1-128-550-21	ELECT 2200MF	20% 50V
				C1631	1-128-550-21	ELECT 2200MF	20% 50V
				C1632	1-104-664-11	ELECT 47MF	20% 25V
				C1633	1-104-664-11	ELECT 47MF	20% 25V
				C1634	1-126-961-11	ELECT 2.2MF	20% 50V
				C1635	1-104-666-11	ELECT 220MF	20% 25V
				C1650	1-102-973-00	CERAMIC 100PF	5% 50V
				C1651	1-102-973-00	CERAMIC 100PF	5% 50V
				C1701	1-126-964-11	ELECT 10MF	20% 50V
				C1702	1-126-964-11	ELECT 10MF	20% 50V
				C1703	1-126-964-11	ELECT 10MF	20% 50V
				C1704	1-126-964-11	ELECT 10MF	20% 50V
				C1705	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
				C1706	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
				C1707	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1708	1-126-935-11	ELECT 470MF	20% 16V
				C1709	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1710	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
				C1711	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
				C1715	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1716	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1717	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C1718	1-126-968-11	ELECT 100MF	20% 50V
				C1719	1-126-968-11	ELECT 100MF	20% 50V
				C1720	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V

<CRYSTAL>

X3501 1-578-774-11 VIBRATOR, CRYSTAL

* A-1346-678-AD BOARD, COMPLETE

4-201-023-11 SPACER, INSULATING
4-202-373-01 SPRING, IC
4-202-710-11 SPACER, INSULATING
4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C1501 1-163-005-11 CERAMIC CHIP 470PF 10% 50V
C1503 1-137-399-11 FILM 0.1MF 5% 100V
C1504 1-164-695-11 CERAMIC CHIP 0.0022MF 5% 50V
C1506 1-126-969-11 ELECT 220MF 20% 50V
C1507 1-163-243-11 CERAMIC CHIP 47PF 5% 50V

C1508 1-137-401-11 FILM 0.22MF 10% 100V
C1509 1-163-251-11 CERAMIC CHIP 100PF 5% 50V
C1510 1-126-972-11 ELECT 1000MF 20% 50V
C1511 1-126-972-11 ELECT 1000MF 20% 50V
C1512 1-126-960-11 ELECT 1MF 20% 50V

C1513 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V
C1514 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V
C1516 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V
C1517 1-126-964-11 ELECT 10MF 20% 50V
C1518 1-126-933-11 ELECT 100MF 20% 16V

C1519 1-126-933-11 ELECT 100MF 20% 16V
C1520 1-126-964-11 ELECT 10MF 20% 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1721	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	<DIODE>			
C1723	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	D1501	8-719-109-89	DIODE RD5.6ESB2	
C1802	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D1502	8-719-908-03	DIODE GP08D	
C1803	1-126-935-11	ELECT 470MF	20% 16V	D1503	8-719-908-03	DIODE GP08D	
C1804	1-126-964-11	ELECT 10MF	20% 50V	D1504	8-719-991-33	DIODE 1SS133T-77	
C1805	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D1505	8-719-988-62	DIODE 1SS355	
C1806	1-104-665-11	ELECT 100MF	20% 25V	D1601	8-719-991-33	DIODE 1SS133T-77	
C1807	1-126-964-11	ELECT 10MF	20% 50V	D1603	8-719-991-33	DIODE 1SS133T-77	
C1808	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D1604	8-719-991-33	DIODE 1SS133T-77	
C1809	1-104-665-11	ELECT 100MF	20% 25V	D1606	8-719-991-33	DIODE 1SS133T-77	
C1810	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D1611	8-719-921-86	DIODE MTZJ-13	
C1811	1-104-665-11	ELECT 100MF	20% 25V	D1612	8-719-991-33	DIODE 1SS133T-77	
C1812	1-126-964-11	ELECT 10MF	20% 50V	D1613	8-719-921-86	DIODE MTZJ-13	
C1813	1-104-666-11	ELECT 220MF	20% 25V	D1614	8-719-991-33	DIODE 1SS133T-77	
C1814	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D1615	8-719-991-33	DIODE 1SS133T-77	
C1815	1-104-666-11	ELECT 220MF	20% 25V	D1616	8-719-991-33	DIODE 1SS133T-77	
C1816	1-126-964-11	ELECT 10MF	20% 50V	D1617	8-719-403-00	DIODE MA3240-TX	
C1817	1-126-964-11	ELECT 10MF	20% 50V	D1618	8-719-991-33	DIODE 1SS133T-77	
C1818	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D1619	8-719-991-33	DIODE 1SS133T-77	
C1819	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	D1620	8-719-403-00	DIODE MA3240-TX	
C1820	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	D1621	8-719-403-00	DIODE MA3240-TX	
C1821	1-126-964-11	ELECT 10MF	20% 50V	D1622	8-719-403-00	DIODE MA3240-TX	
C1822	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D1703	8-719-109-89	DIODE RD5.6ESB2	
C1823	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D1704	8-719-109-89	DIODE RD5.6ESB2	
C1824	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D1705	8-719-109-84	DIODE RD5.1ESB1	
C1825	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D1706	8-719-109-84	DIODE RD5.1ESB1	
C1826	1-104-665-11	ELECT 100MF	20% 25V	D1707	8-719-109-84	DIODE RD5.1ESB1	
C1827	1-104-664-11	ELECT 47MF	20% 25V	D1708	8-719-109-84	DIODE RD5.1ESB1	
C1828	1-104-664-11	ELECT 47MF	20% 25V	D1801	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C1829	1-104-664-11	ELECT 47MF	20% 25V	D1802	8-719-923-60	DIODE MTZJ-T-77-9.1A	
C1830	1-126-964-11	ELECT 10MF	20% 50V	D1803	8-719-923-60	DIODE MTZJ-T-77-9.1A	
<CONNECTOR>				D1804	8-719-923-60	DIODE MTZJ-T-77-9.1A	
CN1501*1-564-506-11	PLUG, CONNECTOR 3P			D1805	8-719-923-60	DIODE MTZJ-T-77-9.1A	
CN1502	1-695-915-11TAB (CONTACT)			D1806	8-719-923-60	DIODE MTZJ-T-77-9.1A	
CN1601*1-564-508-11	PLUG, CONNECTOR 5P			<IC>			
CN1604*1-564-507-11	PLUG, CONNECTOR 4P			IC1501	8-759-192-71	IC STV9379	
CN1605*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P			IC1502	8-759-251-31	IC CA0007AM	
CN1606*1-779-890-11	CONNECTOR, BOARD TO BOARD 10P			IC1503	8-759-998-98	IC LM358D	
CN1701*1-564-511-11	PLUG, CONNECTOR 8P			IC1602	8-759-250-68	IC TDA7264	
CN1702*1-564-516-11	PLUG, CONNECTOR 13P			IC1603	8-759-502-21	IC TDA2822M	
CN1703*1-779-890-11	CONNECTOR, BOARD TO BOARD 10P			IC1701	8-752-895-09	IC CXP86213-002S	
CN1704*1-564-506-11	PLUG, CONNECTOR 3P			IC1702	8-759-353-44	IC ST24C08FM6TR	
CN1705*1-564-505-11	PLUG, CONNECTOR 2P			IC1703	8-759-981-48	IC TL082M	
CN1708*1-564-510-11	PLUG, CONNECTOR 7P			IC1704	8-759-981-48	IC TL082M	
CN1801	1-695-299-11CONNECTOR, BOARD TO BOARD 50P			IC1706	8-759-352-91	IC PST9143NL	
CN1802*1-564-514-11	PLUG, CONNECTOR 11P			IC1801	8-759-144-82	IC UPC2405HF	
CN1803	1-564-513-11PLUG, CONNECTOR 10P			IC1802	8-759-095-63	IC PQ09RF2	
CN1804*1-564-508-11	PLUG, CONNECTOR 5P			IC1803	8-759-231-58	IC TA7812S	
CN1805*1-779-890-11	CONNECTOR, BOARD TO BOARD 10P			IC1804	8-759-069-28	IC PQ05RF11	
CN1806*1-779-890-11	CONNECTOR, BOARD TO BOARD 10P			IC1805	8-759-100-96	IC UPC4558G2	
CN1807*1-564-511-11	PLUG, CONNECTOR 8P			<JACK>			
CN1808*1-564-510-11	PLUG, CONNECTOR 7P			J1601	1-784-653-11 JACK, PHONO 2P		



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<CHIP CONDUCTOR>				Q1711 8-729-120-28 TRANSISTOR 2SC1623-L5L6			
JR1502	1-216-295-91	SHORT	0	Q1801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1503	1-216-295-91	SHORT	0	Q1802	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1504	1-216-295-91	SHORT	0	Q1803	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1505	1-216-295-91	SHORT	0	Q1804	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1506	1-216-295-91	SHORT	0	Q1805 8-729-120-28 TRANSISTOR 2SC1623-L5L6			
JR1508	1-216-295-91	SHORT	0	Q1806	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1510	1-216-295-91	SHORT	0	Q1807	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1511	1-216-295-91	SHORT	0	Q1808	8-729-216-22	TRANSISTOR 2SA1162-G	
JR1512	1-216-295-91	SHORT	0	Q1809	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR1513	1-216-295-91	SHORT	0	<RESISTOR>			
JR1514	1-216-295-91	SHORT	0	R1501	1-216-353-00	METAL OXIDE 2.2	5% 1W F
JR1701	1-216-295-91	SHORT	0	R1502	1-216-671-11	METAL CHIP 6.8K	0.50%1/10W
<COIL>				R1504	1-216-675-11	METAL CHIP 10K	0.50%1/10W
L1501	1-412-524-11	INDUCTOR 8.2UH		R1505	1-249-377-11	CARBON 0.47	5% 1/4W F
L1601	1-402-711-11	INDUCTOR 0UH		R1506	1-215-888-00	METAL OXIDE 220	5% 2W F
L1602	1-402-711-11	INDUCTOR 0UH		R1507	1-216-081-00	RES,CHIP 22K	5% 1/10W
L1701	1-408-603-31	INDUCTOR 10UH		R1508	1-249-383-11	CARBON 1.5	5% 1/4W F
L1702	1-408-598-31	INDUCTOR 3.9UH		R1509	1-216-671-11	METAL CHIP 6.8K	0.50%1/10W
L1801	1-408-603-31	INDUCTOR 10UH		R1510	1-216-675-11	METAL CHIP 10K	0.50%1/10W
<TRANSISTOR>				R1511	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
Q1501	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1512	1-216-085-00	RES,CHIP 33K	5% 1/10W
Q1502	8-729-216-22	TRANSISTOR 2SA1162-G		R1513	1-216-049-00	RES,CHIP 1K	5% 1/10W
Q1503	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1514	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1505	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1515	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1601	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1516	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1602	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1517	1-216-081-00	RES,CHIP 22K	5% 1/10W
Q1603	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1518	1-216-353-00	METAL OXIDE 2.2	5% 1W F
Q1604	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1519	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1605	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1520	1-216-089-00	RES,CHIP 47K	5% 1/10W
Q1607	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1521	1-216-097-00	RES,CHIP 100K	5% 1/10W
Q1608	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1522	1-216-089-91	RES,CHIP 47K	5% 1/10W
Q1609	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1525	1-216-083-00	RES,CHIP 27K	5% 1/10W
Q1610	8-729-216-22	TRANSISTOR 2SA1162-G		R1526	1-216-083-00	RES,CHIP 27K	5% 1/10W
Q1611	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1529	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1612	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1530	1-216-097-00	RES,CHIP 100K	5% 1/10W
Q1613	8-729-027-56	TRANSISTOR DTC143TKA-T146		R1531	1-216-089-00	RES,CHIP 47K	5% 1/10W
Q1614	8-729-216-22	TRANSISTOR 2SA1162-G		R1532	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1615	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1533	1-249-377-11	CARBON 0.47	5% 1/4W F
Q1616	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1534	1-216-089-91	RES,CHIP 47K	5% 1/10W
Q1617	8-729-216-22	TRANSISTOR 2SA1162-G		R1537	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1701	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1538	1-216-083-00	RES,CHIP 27K	5% 1/10W
Q1702	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1539	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1703	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1540	1-216-091-00	RES,CHIP 56K	5% 1/10W
Q1704	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1541	1-216-091-00	RES,CHIP 56K	5% 1/10W
Q1705	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1542	1-216-093-00	RES,CHIP 68K	5% 1/10W
Q1706	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1543	1-216-093-00	RES,CHIP 68K	5% 1/10W
Q1707	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1601	1-216-025-00	RES,CHIP 100	5% 1/10W
Q1708	8-729-027-38	TRANSISTOR DTA144EKA-T146		R1602	1-216-041-00	RES,CHIP 470	5% 1/10W
Q1709	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1603	1-216-041-00	RES,CHIP 470	5% 1/10W
Q1710	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1604	1-216-113-00	RES,CHIP 470K	5% 1/10W
				R1605	1-216-113-00	RES,CHIP 470K	5% 1/10W
				R1606	1-249-397-11	CARBON 22	5% 1/4W F
				R1607	1-249-397-11	CARBON 22	5% 1/4W F
				R1608	1-249-425-11	CARBON 4.7K	5% 1/4W F



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1609	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1722	1-216-033-00	RES,CHIP	220 5% 1/10W
R1610	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1725	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1611	1-249-425-11	CARBON	4.7K 5% 1/4W F	R1726	1-216-295-00	SHORT	0
R1614	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R1727	1-216-033-00	RES,CHIP	220 5% 1/10W
R1615	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R1728	1-216-025-00	RES,CHIP	100 5% 1/10W
R1617	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R1729	1-216-025-00	RES,CHIP	100 5% 1/10W
R1618	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1730	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1620	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1731	1-216-033-00	RES,CHIP	220 5% 1/10W
R1625	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R1732	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1626	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R1733	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1629	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1734	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1630	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1735	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1631	1-249-389-11	CARBON	4.7 5% 1/4W F	R1736	1-216-033-00	RES,CHIP	220 5% 1/10W
R1632	1-216-089-91	RES,CHIP	47K 5% 1/10W	R1737	1-216-033-00	RES,CHIP	220 5% 1/10W
R1633	1-216-089-91	RES,CHIP	47K 5% 1/10W	R1738	1-216-025-00	RES,CHIP	100 5% 1/10W
R1634	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1739	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1635	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1740	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1636	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1741	1-216-033-00	RES,CHIP	220 5% 1/10W
R1637	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1742	1-216-033-00	RES,CHIP	220 5% 1/10W
R1638	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1743	1-216-025-00	RES,CHIP	100 5% 1/10W
R1639	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1744	1-216-033-00	RES,CHIP	220 5% 1/10W
R1640	1-216-025-00	RES,CHIP	100 5% 1/10W	R1745	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1641	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1746	1-216-025-00	RES,CHIP	100 5% 1/10W
R1642	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1749	1-216-033-00	RES,CHIP	220 5% 1/10W
R1643	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1750	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1644	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1751	1-216-033-00	RES,CHIP	220 5% 1/10W
R1645	1-216-041-00	RES,CHIP	470 5% 1/10W	R1753	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1648	1-249-381-11	CARBON	1 5% 1/4W F	R1754	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1649	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1755	1-216-025-00	RES,CHIP	100 5% 1/10W
R1650	1-216-033-00	RES,CHIP	220 5% 1/10W	R1756	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1651	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1757	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1652	1-216-099-00	RES,CHIP	120K 5% 1/10W	R1759	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1653	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1760	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1654	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1762	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1655	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1763	1-216-666-11	METAL CHIP	4.3K 0.50% 1/10W
R1701	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1764	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R1702	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1765	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1703	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1766	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1704	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1767	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1705	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1768	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1706	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	R1769	1-216-115-00	RES,CHIP	560K 5% 1/10W
R1707	1-216-025-00	RES,CHIP	100 5% 1/10W	R1770	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1708	1-216-025-00	RES,CHIP	100 5% 1/10W	R1771	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1709	1-216-025-00	RES,CHIP	100 5% 1/10W	R1772	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1710	1-216-049-00	RES,CHIP	1K 5% 1/10W	R1773	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1711	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1774	1-216-025-00	RES,CHIP	100 5% 1/10W
R1712	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1775	1-216-115-00	RES,CHIP	560K 5% 1/10W
R1713	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1778	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1714	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1786	1-216-025-00	RES,CHIP	100 5% 1/10W
R1715	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1787	1-216-025-00	RES,CHIP	100 5% 1/10W
R1716	1-216-033-00	RES,CHIP	220 5% 1/10W	R1788	1-216-025-00	RES,CHIP	100 5% 1/10W
R1717	1-216-089-00	RES,CHIP	47K 5% 1/10W	R1789	1-216-049-00	RES,CHIP	1K 5% 1/10W
R1718	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1790	1-216-025-00	RES,CHIP	100 5% 1/10W
R1719	1-216-033-00	RES,CHIP	220 5% 1/10W	R1791	1-216-025-00	RES,CHIP	100 5% 1/10W
R1720	1-216-033-00	RES,CHIP	220 5% 1/10W	R1792	1-216-089-00	RES,CHIP	47K 5% 1/10W
R1721	1-216-033-00	RES,CHIP	220 5% 1/10W	R1793	1-216-089-00	RES,CHIP	47K 5% 1/10W



The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1794	1-216-089-00	RES,CHIP	47K 5% 1/10W	<TERMINAL BOARD>			
R1795	1-216-089-00	RES,CHIP	47K 5% 1/10W				
R1802	1-215-900-11	METAL OXIDE	22K 5% 2W F	TB1601	1-694-303-11	TERMINAL, PUSH	
R1803	1-216-073-00	RES,CHIP	10K 5% 1/10W	<CRYSTAL>			
R1804	1-216-113-00	RES,CHIP	470K 5% 1/10W				
R1805	1-216-113-00	RES,CHIP	470K 5% 1/10W	X1701	1-579-125-11	VIBRATOR, CERAMIC	
R1806	1-216-023-00	RES,CHIP	82 5% 1/10W				
R1807	1-216-059-00	RES,CHIP	2.7K 5% 1/10W				
R1808	1-216-059-00	RES,CHIP	2.7K 5% 1/10W				
R1809	1-216-097-00	RES,CHIP	100K 5% 1/10W	*****			
R1810	1-216-023-00	RES,CHIP	82 5% 1/10W	* A-1346-679-AE BOARD, COMPLETE (41inch)			
R1811	1-216-025-00	RES,CHIP	100 5% 1/10W	*****			
R1812	1-216-025-00	RES,CHIP	100 5% 1/10W	* A-1346-736-AE BOARD, COMPLETE (48/53/61inch)			
R1813	1-216-049-00	RES,CHIP	1K 5% 1/10W	*****			
R1814	1-216-023-00	RES,CHIP	82 5% 1/10W	4-382-854-11 SCREW (M3X10), P, SW (+)			
R1815	1-216-025-00	RES,CHIP	100 5% 1/10W	7-682-952-09 SCREW +PSW 3X16			
R1816	1-216-025-00	RES,CHIP	100 5% 1/10W				
R1817	1-216-025-00	RES,CHIP	100 5% 1/10W	<CAPACITOR>			
R1818	1-216-059-00	RES,CHIP	2.7K 5% 1/10W				
R1819	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	C502	1-126-959-11	ELECT 0.47MF 20% 50V	
R1820	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	C505	1-137-364-11	FILM 0.001MF 5% 50V	
R1821	1-216-025-00	RES,CHIP	100 5% 1/10W	C506	1-126-933-11	ELECT 100MF 20% 16V	
R1822	1-216-089-00	RES,CHIP	47K 5% 1/10W	C507	1-126-965-11	ELECT 22MF 20% 50V	
R1823	1-216-089-00	RES,CHIP	47K 5% 1/10W	C508	1-102-228-00	CERAMIC 470PF 10% 500V	
R1824	1-216-089-00	RES,CHIP	47K 5% 1/10W	C509	1-106-383-00	MYLAR 0.047MF 10% 200V	
R1825	1-216-089-00	RES,CHIP	47K 5% 1/10W	C511	1-130-475-00	MYLAR 0.0022MF 5% 50V	
R1826	1-216-089-00	RES,CHIP	47K 5% 1/10W	C512	1-136-479-11	FILM 0.001MF 5% 50V	
R1827	1-216-089-00	RES,CHIP	47K 5% 1/10W	C513	1-126-965-11	ELECT 22MF 20% 50V	
R1828	1-216-089-00	RES,CHIP	47K 5% 1/10W	C514 Δ	1-162-116-91	CERAMIC 680PF 10% 2KV	
R1829	1-216-089-00	RES,CHIP	47K 5% 1/10W	C515 Δ	1-136-334-91	FILM 0.033MF 5% 630V	
R1830	1-216-073-00	RES,CHIP	10K 5% 1/10W	C516 Δ	1-117-648-11	FILM 15000PF 3% 1.2KV	
R1831	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	C518	1-130-495-00	FILM 0.1MF 5% 50V	
R1832	1-216-049-00	RES,CHIP	1K 5% 1/10W	C519	1-106-359-00	MYLAR 0.0047MF 10% 100V	
R1833	1-216-041-00	RES,CHIP	470 5% 1/10W	C520	1-162-116-00	CERAMIC 680PF 10% 2KV	
R1834	1-216-049-00	RES,CHIP	1K 5% 1/10W	C521	1-162-116-00	CERAMIC 680PF 10% 2KV	
R1835	1-216-049-00	RES,CHIP	1K 5% 1/10W	C523	1-115-521-11	FILM 0.82MF 5% 200V	
R1836	1-216-049-00	RES,CHIP	1K 5% 1/10W	C524	1-106-359-00	MYLAR 0.0047MF 10% 100V	
R1837	1-216-049-00	RES,CHIP	1K 5% 1/10W	C526	1-102-228-00	CERAMIC 470PF 10% 500V	
R1838	1-216-041-00	RES,CHIP	470 5% 1/10W	C527	1-126-968-11	ELECT 100MF 20% 50V	
R1839	1-216-049-00	RES,CHIP	1K 5% 1/10W	C528	1-107-957-11	ELECT 1MF 20% 250V	
R1840	1-216-049-00	RES,CHIP	1K 5% 1/10W	C529	1-107-804-11	FILM 0.68MF 5% 200V	
R1841	1-216-049-00	RES,CHIP	1K 5% 1/10W	C530	1-107-648-91	ELECT 100MF 20% 160V	
R1842	1-216-049-00	RES,CHIP	1K 5% 1/10W	C531	1-126-971-11	ELECT 470MF 20% 50V	
R1843	1-216-041-00	RES,CHIP	470 5% 1/10W	C532	1-126-971-11	ELECT 470MF 20% 50V	
R1844	1-216-049-00	RES,CHIP	1K 5% 1/10W	C533	1-107-655-11	ELECT 47MF 20% 250V	
R1845	1-216-049-00	RES,CHIP	1K 5% 1/10W	C535	1-106-387-00	MYLAR 0.068MF 10% 200V	
R1846	1-216-049-00	RES,CHIP	1K 5% 1/10W	C536	1-137-374-11	FILM 0.047MF 5% 50V	
R1847	1-216-049-00	RES,CHIP	1K 5% 1/10W	C537	1-126-968-11	ELECT 100MF 20% 50V	
R1848	1-216-049-00	RES,CHIP	1K 5% 1/10W	C538	1-126-968-11	ELECT 100MF 20% 50V	
R1849	1-216-041-00	RES,CHIP	470 5% 1/10W	C539	1-162-114-00	CERAMIC 0.0047MF 2KV	
<RELAY>				C540	1-137-372-11	FILM 0.022MF 5% 50V	
RY16011	755-028-11	RELAY		C541	1-137-374-11	FILM 0.047MF 5% 50V	
RY16021	755-028-11	RELAY		C542	1-126-934-11	ELECT 220MF 20% 16V	
				C544	1-104-665-11	ELECT 100MF 20% 25V	

The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.



The components identified by \boxtimes in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		CN807*1-564-509-11 PLUG, CONNECTOR 6P				<COIL>	
		CN808*1-573-986-11 PIN, CONNECTOR (PC BOARD) 5P				L502 1-410-478-11 INDUCTOR 47UH	
		CN810*1-573-963-11 PIN, CONNECTOR (PC BOARD) 3P				L503 1-459-111-00 INDUCTOR 0UH	
		CN813*1-564-506-11 PLUG, CONNECTOR 3P				L505 Δ 1-416-637-11 COIL, HORIZONTAL LINEARITY	
						L506 1-412-552-11 INDUCTOR 2.2MMH	
						L801 1-406-979-11 INDUCTOR 0UH	
		<DIODE>				L802 1-406-979-11 INDUCTOR 0UH	
		D501 8-719-991-33 DIODE 1SS133T-77				L803 1-406-665-11 INDUCTOR 0UH	
		D502 8-719-991-33 DIODE 1SS133T-77					
		D503 8-719-991-33 DIODE 1SS133T-77				<NEON LAMP>	
		D504 8-719-921-63 DIODE MTZJ-7.5B				NL501 1-519-108-99 LAMP, NEON	
		D507 8-719-302-43 DIODE EL1Z					
						<IC LINK>	
		D508 8-719-900-26 DIODE ERD29-08J				PS601 Δ 1-533-597-31 LINK, IC (5A/90V AC, 60V DC)	
		D509 8-719-945-80 DIODE ERC06-15S				PS602 Δ 1-533-597-31 LINK, IC (5A/90V AC, 60V DC)	
		D510 8-719-991-33 DIODE 1SS133T-77				PS603 Δ 1-533-593-31 LINK, IC (2A/90V AC, 60V DC)	
		D511 8-719-302-43 DIODE EL1Z				PS604 Δ 1-533-593-31 LINK, IC (2A/90V AC, 60V DC)	
		D512 8-719-991-33 DIODE 1SS133T-77				PS605 Δ 1-533-593-31 LINK, IC (2A/90V AC, 60V DC)	
						PS606 Δ 1-533-593-31 LINK, IC (2A/90V AC, 60V DC)	
		D513 8-719-302-43 DIODE EL1Z				PS607 Δ 1-533-593-31 LINK, IC (2A/90V AC, 60V DC)	
		D514 8-719-908-03 DIODE GP08D				PS608 Δ 1-533-593-31 LINK, IC (2A/90V AC, 60V DC)	
		D515 8-719-908-03 DIODE GP08D					
		D517 8-719-018-82 DIODE RGP02-20EL-6394				<TRANSISTOR>	
		D519 8-719-991-33 DIODE 1SS133T-77				Q501 8-729-119-80 TRANSISTOR 2SC2688-LK	
						Q502 8-729-044-29 TRANSISTOR 2SD2539 (LBSONY-1)	
		D520 8-719-302-43 DIODE EL1Z				Q503 8-729-119-76 TRANSISTOR 2SA1175-HFE	
		D521 8-719-302-43 DIODE EL1Z				Q504 8-729-823-81 TRANSISTOR 2SC4632LS-CB7	
		D524 8-719-991-33 DIODE 1SS133T-77				Q505 8-729-038-83 TRANSISTOR 2SK2251-01-F19	
		D527 8-719-109-85 DIODE RD5.1ESB2				Q506 8-729-119-78 TRANSISTOR 2SC2785-HFE	
		D701 8-719-109-63 DIODE RD3.0ESB2				Q507 8-729-032-61 TRANSISTOR 2SC5022-02	
						Q701 8-729-119-78 TRANSISTOR 2SC2785-HFE	
		D702 8-719-991-33 DIODE 1SS133T-77				Q702 8-729-119-78 TRANSISTOR 2SC2785-HFE	
		D820 8-719-109-68 DIODE RD3.6ESB1				Q801 8-729-119-78 TRANSISTOR 2SC2785-HFE	
		D829 8-719-109-84 DIODE RD5.1ESB1				Q802 8-729-119-76 TRANSISTOR 2SA1175-HFE	
		D835 8-719-109-89 DIODE RD5.6ESB2				Q803 8-729-119-78 TRANSISTOR 2SC2785-HFE	
		D840 8-719-991-33 DIODE 1SS133T-77				Q804 8-729-119-76 TRANSISTOR 2SA1175-HFE	
						Q805 8-729-119-78 TRANSISTOR 2SC2785-HFE	
		D842 8-719-991-33 DIODE 1SS133T-77				Q806 8-729-119-76 TRANSISTOR 2SA1175-HFE	
		D845 8-719-991-33 DIODE 1SS133T-77				Q807 8-729-119-78 TRANSISTOR 2SC2785-HFE (41inch)	
		D846 8-719-991-33 DIODE 1SS133T-77				Q808 8-729-030-02 TRANSISTOR DTC144ESA	
						Q809 8-729-119-78 TRANSISTOR 2SC2785-HFE	
		<FERRITE BEAD>				Q810 8-729-119-78 TRANSISTOR 2SC2785-HFE	
		FB501 1-410-397-21 FERRITE 1.1UH				Q811 8-729-119-78 TRANSISTOR 2SC2785-HFE	
						Q812 8-729-119-76 TRANSISTOR 2SA1175-HFE	
		<IC>				<RESISTOR>	
		IC501 8-759-133-90 IC UPC339C				\boxtimes R1 Δ METAL 1% 1/4W	
		IC801 8-759-327-51 IC PA0053B				R501 1-249-421-11 CARBON 2.2K 5% 1/4W	
		IC802 8-759-327-51 IC PA0053B				R502 1-216-441-21 METAL OXIDE 27K 5% 1W F	
		IC803 8-759-183-37 IC CA0007AD				R503 1-247-843-11 CARBON 3.3K 5% 1/4W	
		IC804 8-759-464-79 IC PM0011AS				R504 1-249-419-11 CARBON 1.5K 5% 1/4W	
						R505 1-247-885-00 CARBON 180K 5% 1/4W	
		IC805 8-759-711-28 IC NJM2058D					
		IC806 8-759-464-79 IC PM0011AS					
		IC808 8-759-464-79 IC PM0011AS					
		IC809 8-749-014-37 IC STK392-150					
		IC810 8-749-014-37 IC STK392-150					
		IC811 8-759-981-96 IC RC4560D					
		IC812 8-759-701-56 IC NJM78M05FA					
		IC813 8-759-701-65 IC NJM79M05FA					



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R506	1-247-883-00	CARBON 150K	5% 1/4W	R566	1-249-377-11	CARBON 0.47	5% 1/4W F
R507	1-249-422-11	CARBON 2.7K	5% 1/4W	R567	1-249-377-11	CARBON 0.47	5% 1/4W F
R508	1-260-338-51	CARBON 6.8K	5% 1/2W	R568	1-247-903-00	CARBON 1M	5% 1/4W
R509	1-249-437-11	CARBON 47K	5% 1/4W	R569	1-216-390-11	METAL OXIDE 1.2	5% 3W F
R510	1-215-918-00	METAL OXIDE 1.5K	5% 3W F	R570	1-215-910-00	METAL OXIDE 68	5% 3W F
R511	1-215-918-00	METAL OXIDE 1.5K	5% 3W F	R571	1-249-422-11	CARBON 2.7K	5% 1/4W
R512	1-215-918-00	METAL OXIDE 1.5K	5% 3W F	R572	1-247-895-91	CARBON 470K	5% 1/4W
R513	1-247-843-11	CARBON 3.3K	5% 1/4W	R573	1-249-438-11	CARBON 56K	5% 1/4W
R514	1-215-443-00	METAL 8.2K	1% 1/4W	R574	1-249-435-11	CARBON 33K	5% 1/4W
R516	1-215-473-00	METAL 150K	1% 1/4W	R576	1-247-807-31	CARBON 100	5% 1/4W
R517	1-215-449-00	METAL 15K	1% 1/4W	R577	1-249-422-11	CARBON 2.7K	5% 1/4W
R518	1-249-436-11	CARBON 39K	5% 1/4W	R579	1-247-889-00	CARBON 270K	5% 1/4W
R519	1-249-429-11	CARBON 10K	5% 1/4W	R580	1-249-437-11	CARBON 47K	5% 1/4W
R522	1-249-428-11	CARBON 8.2K	5% 1/4W	R581	1-249-437-11	CARBON 47K	5% 1/4W
R523	1-249-437-11	CARBON 47K	5% 1/4W	R583	1-249-428-11	CARBON 8.2K	5% 1/4W
R524	1-249-425-11	CARBON 4.7K	5% 1/4W	R584	1-249-429-11	CARBON 10K	5% 1/4W
R525	1-249-405-11	CARBON 100	5% 1/4W F	R585	1-216-490-11	METAL OXIDE 39K	5% 3W F
R527	1-249-425-11	CARBON 4.7K	5% 1/4W	R586	1-215-892-11	METAL OXIDE 1K	5% 2W F
R528	1-215-910-00	METAL OXIDE 68	5% 3W F	R588	1-247-863-91	CARBON 22K	5% 1/4W
R529	1-215-449-00	METAL 15K	1% 1/4W	R589	1-247-887-00	CARBON 220K	5% 1/4W
R530	1-249-429-11	CARBON 10K	5% 1/4W	R591	1-249-425-11	CARBON 4.7K	5% 1/4W
R531	1-260-326-11	CARBON 680	5% 1/2W	R701	1-215-449-00	METAL 15K	1% 1/4W
R532	1-260-315-71	CARBON 82	5% 1/2W	R702	1-249-421-11	CARBON 2.2K	5% 1/4W
R533	1-214-912-00	METAL 91K	1% 1/2W	R703	1-249-421-11	CARBON 2.2K	5% 1/4W
R534	1-215-479-00	METAL 270K	1% 1/4W	R704	1-215-457-00	METAL 33K	1% 1/4W
R535	1-247-887-00	CARBON 220K	5% 1/4W	R705	1-215-457-00	METAL 33K	1% 1/4W
R536	1-249-377-11	CARBON 0.47	5% 1/4W F	R706	1-215-457-00	METAL 33K	1% 1/4W
R537	1-260-336-11	CARBON 4.7K	5% 1/2W	R801	1-247-807-31	CARBON 100	5% 1/4W
R538	1-249-425-11	CARBON 4.7K	5% 1/4W	R802	1-247-807-31	CARBON 100	5% 1/4W
R539	1-249-377-11	CARBON 0.47	5% 1/4W F	R803	1-249-430-11	CARBON 12K	5% 1/4W
R540	1-249-377-11	CARBON 0.47	5% 1/4W F	R804	1-249-425-11	CARBON 4.7K	5% 1/4W
R541	1-247-807-31	CARBON 100	5% 1/4W	R805	1-247-807-31	CARBON 100	5% 1/4W
R542	1-215-864-00	METAL OXIDE 150	5% 1W F	R806	1-249-429-11	CARBON 10K	5% 1/4W
R543	1-216-349-00	METAL OXIDE 1	5% 1W F	R807	1-247-807-31	CARBON 100	5% 1/4W
R544	1-215-864-00	METAL OXIDE 150	5% 1W F	R808	1-249-429-11	CARBON 10K	5% 1/4W
R545	1-249-377-11	CARBON 0.47	5% 1/4W F	R809	1-249-425-11	CARBON 4.7K	5% 1/4W
R546	1-249-377-11	CARBON 0.47	5% 1/4W F	R810	1-247-807-31	CARBON 100	5% 1/4W
R547	1-247-807-31	CARBON 100	5% 1/4W	R811	1-247-807-31	CARBON 100	5% 1/4W
R548	1-249-413-11	CARBON 470	5% 1/4W	R813	1-247-863-91	CARBON 22K	5% 1/4W
R549	1-249-429-11	CARBON 10K	5% 1/4W	R814	1-247-807-31	CARBON 100	5% 1/4W
			(48/53/61inch)	R815	1-247-807-31	CARBON 100	5% 1/4W
	1-249-431-11	CARBON 15K	5% 1/4W	R816	1-247-807-31	CARBON 100	5% 1/4W
			(41inch)	R817	1-247-807-31	CARBON 100	5% 1/4W
R550	1-247-807-31	CARBON 100	5% 1/4W	R818	1-249-429-11	CARBON 10K	5% 1/4W
R551	1-249-437-11	CARBON 47K	5% 1/4W	R819	1-247-807-31	CARBON 100	5% 1/4W
R552	1-247-807-31	CARBON 100	5% 1/4W	R820	1-249-437-11	CARBON 47K	5% 1/4W
R553	1-247-881-00	CARBON 120K	5% 1/4W	R821	1-249-431-11	CARBON 15K	5% 1/4W
R554	1-249-405-11	CARBON 100	5% 1/4W F	R822	1-249-417-11	CARBON 1K	5% 1/4W
R555	1-247-807-31	CARBON 100	5% 1/4W	R823	1-249-417-11	CARBON 1K	5% 1/4W
R556	1-260-099-11	CARBON 1K	5% 1/2W	R824	1-215-462-00	METAL 51K	1% 1/4W
R557	1-216-490-11	METAL OXIDE 39K	5% 3W F	R825	1-249-441-11	CARBON 100K	5% 1/4W
R558	1-216-490-11	METAL OXIDE 39K	5% 3W F	R826	1-215-462-00	METAL 51K	1% 1/4W
R559	1-216-490-11	METAL OXIDE 39K	5% 3W F	R827	1-216-474-11	METAL OXIDE 82	5% 3W F
R560	8-719-991-33	DIODE 1SS133T-77		R828	1-249-426-11	CARBON 5.6K	5% 1/4W
R562	1-202-838-00	SOLID 100K	10% 1/2W	R829	1-249-426-11	CARBON 5.6K	5% 1/4W
R563	1-215-447-00	METAL 12K	1% 1/4W	R830	1-249-414-11	CARBON 560	5% 1/4W
R565	1-247-807-31	CARBON 100	5% 1/4W				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R831	1-249-414-11	CARBON	560 5% 1/4W	R888	1-247-807-31	CARBON	100 5% 1/4W
R832	1-249-441-11	CARBON	100K 5% 1/4W	R889	1-249-439-11	CARBON	68K 5% 1/4W
R833	1-216-474-11	METAL OXIDE	82 5% 3W F	R890	1-249-441-11	CARBON	100K 5% 1/4W
R834	1-249-441-11	CARBON	100K 5% 1/4W	R891	1-247-843-11	CARBON	3.3K 5% 1/4W
R835	1-249-441-11	CARBON	100K 5% 1/4W	R892	1-249-425-11	CARBON	4.7K 5% 1/4W (41inch)
R836	1-247-807-31	CARBON	100 5% 1/4W	R893	1-249-421-11	CARBON	2.2K 5% 1/4W (41inch)
R837	1-249-441-11	CARBON	100K 5% 1/4W	R894	1-215-455-00	METAL	27K 1% 1/4W
R838	1-249-421-11	CARBON	2.2K 5% 1/4W	R895	1-249-421-11	CARBON	2.2K 5% 1/4W
R839	1-247-807-31	CARBON	100 5% 1/4W	R896	1-249-441-11	CARBON	100K 5% 1/4W
R840	1-215-489-00	METAL	680K 1% 1/4W	R897	1-247-807-31	CARBON	100 5% 1/4W
R841	1-247-815-91	CARBON	220 5% 1/4W	R898	1-247-815-91	CARBON	220 5% 1/4W
R842	1-247-807-31	CARBON	100 5% 1/4W	R899	1-215-489-00	METAL	680K 1% 1/4W
R843	1-247-807-31	CARBON	100 5% 1/4W	R900	1-216-474-11	METAL OXIDE	82 5% 3W F
R844	1-247-807-31	CARBON	100 5% 1/4W	R901	1-215-449-00	METAL	15K 1% 1/4W
R845	1-249-441-11	CARBON	100K 5% 1/4W	R902	1-215-449-00	METAL	15K 1% 1/4W
R846	1-247-807-31	CARBON	100 5% 1/4W	R903	1-215-421-00	METAL	1K 1% 1/4W
R847	1-215-481-00	METAL	330K 1% 1/4W	R904	1-214-800-11	METAL	2.2 1% 1/2W
R848	1-215-449-00	METAL	15K 1% 1/4W	R905	1-214-800-11	METAL	2.2 1% 1/2W
R849	1-215-489-00	METAL	680K 1% 1/4W	R906	1-214-800-11	METAL	2.2 1% 1/2W
R850	1-215-481-00	METAL	330K 1% 1/4W	R907	1-215-489-00	METAL	680K 1% 1/4W
R851	1-247-807-31	CARBON	100 5% 1/4W	R908	1-215-445-00	METAL	10K 1% 1/4W
R852	1-247-807-31	CARBON	100 5% 1/4W	R909	1-215-421-00	METAL	1K 1% 1/4W
R853	1-247-887-00	CARBON	220K 5% 1/4W	R910	1-215-421-00	METAL	1K 1% 1/4W
R854	1-249-429-11	CARBON	10K 5% 1/4W	R911	1-215-461-00	METAL	47K 1% 1/4W
R856	1-247-807-31	CARBON	100 5% 1/4W	R912	1-215-445-00	METAL	10K 1% 1/4W
R857	1-247-807-31	CARBON	100 5% 1/4W	R913	1-215-455-00	METAL	27K 1% 1/4W
R858	1-215-455-00	METAL	27K 1% 1/4W	R914	1-215-455-00	METAL	27K 1% 1/4W
R859	1-215-455-00	METAL	27K 1% 1/4W	R915	1-215-455-00	METAL	27K 1% 1/4W
R860	1-215-455-00	METAL	27K 1% 1/4W	R916	1-215-455-00	METAL	27K 1% 1/4W
R861	1-215-455-00	METAL	27K 1% 1/4W	R917	1-215-455-00	METAL	27K 1% 1/4W
R862	1-215-455-00	METAL	27K 1% 1/4W	R918	1-215-455-00	METAL	27K 1% 1/4W
R863	1-215-455-00	METAL	27K 1% 1/4W	R919	1-249-435-11	CARBON	33K 5% 1/4W
R865	1-249-424-11	CARBON	3.9K 5% 1/4W	R920	1-214-800-11	METAL	2.2 1% 1/2W
R866	1-249-437-11	CARBON	47K 5% 1/4W (41inch)	R921	1-249-429-11	CARBON	10K 5% 1/4W
R867	1-215-455-00	METAL	27K 1% 1/4W	R922	1-215-445-00	METAL	10K 1% 1/4W
R868	1-215-445-00	METAL	10K 1% 1/4W	R923	1-249-425-11	CARBON	4.7K 5% 1/4W
R869	1-249-425-11	CARBON	4.7K 5% 1/4W	R924	1-215-445-00	METAL	10K 1% 1/4W
R870	1-249-437-11	CARBON	47K 5% 1/4W (41inch)	R925	1-249-425-11	CARBON	4.7K 5% 1/4W
R871	1-249-417-11	CARBON	1K 5% 1/4W	R926	1-249-408-11	CARBON	180 5% 1/4W
R872	1-249-425-11	CARBON	4.7K 5% 1/4W	R927	1-249-429-11	CARBON	10K 5% 1/4W
R873	1-247-807-31	CARBON	100 5% 1/4W	R928	1-249-429-11	CARBON	10K 5% 1/4W
R874	1-249-435-11	CARBON	33K 5% 1/4W	R929	1-214-800-11	METAL	2.2 1% 1/2W
R875	1-249-441-11	CARBON	100K 5% 1/4W	R930	1-214-800-11	METAL	2.2 1% 1/2W
R877	1-249-422-11	CARBON	2.7K 5% 1/4W (41inch)	R931	1-215-445-00	METAL	10K 1% 1/4W
R878	1-215-469-00	METAL	100K 1% 1/4W (41inch)	R933	1-215-445-00	METAL	10K 1% 1/4W
R879	1-215-445-00	METAL	10K 1% 1/4W	R934	1-249-422-11	CARBON	2.7K 5% 1/4W
R881	1-249-408-11	CARBON	180 5% 1/4W	R935	1-249-429-11	CARBON	10K 5% 1/4W
R882	1-249-429-11	CARBON	10K 5% 1/4W	R936	1-249-429-11	CARBON	10K 5% 1/4W
R883	1-249-429-11	CARBON	10K 5% 1/4W	R937	1-249-436-11	CARBON	39K 5% 1/4W
R884	1-215-445-00	METAL	10K 1% 1/4W	R938	1-215-421-00	METAL	1K 1% 1/4W
R885	1-249-441-11	CARBON	100K 5% 1/4W	R939	1-259-878-11	CARBON	1.5M 5% 1/4W
R886	1-249-428-11	CARBON	8.2K 5% 1/4W	R940	1-249-441-11	CARBON	100K 5% 1/4W
R887	1-247-807-31	CARBON	100 5% 1/4W	R941	1-249-441-11	CARBON	100K 5% 1/4W
				R942	1-249-421-11	CARBON	2.2K 5% 1/4W

The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.

KP-EF41HK/ME/MN/SN, EF48HK/ME/MN/SN,
EF53HK/ME/MN/SN, EF61HK/ME/MN/SN RM-871



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R943	1-249-441-11	CARBON	100K 5% 1/4W	R998	1-249-425-11	CARBON	4.7K 5% 1/4W
R944	1-215-421-00	METAL	1K 1% 1/4W	R999	1-249-425-11	CARBON	4.7K 5% 1/4W
R945	1-249-437-11	CARBON	47K 5% 1/4W (48/53/61inch)	R1901	1-249-439-11	CARBON	68K 5% 1/4W
	1-249-439-11	CARBON	68K 5% 1/4W (41inch)	R1904	1-249-425-11	CARBON	4.7K 5% 1/4W
R946	1-215-421-00	METAL	1K 1% 1/4W	<SPARK GAP>			
R947	1-249-441-11	CARBON	100K 5% 1/4W	SG501	1-519-422-11	GAP, SPARK	
R948	1-247-815-91	CARBON	220 5% 1/4W	<TRANSFORMER>			
R949	1-247-807-31	CARBON	100 5% 1/4W	T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
R950	1-247-807-31	CARBON	100 5% 1/4W	T502 Δ	1-431-211-11	TRANSFORMER, FERRITE (PMT)	
R951	1-247-807-31	CARBON	100 5% 1/4W	T504 Δ	1-453-248-21	TRANSFORMER ASSY, FLYBACK (NX-4007//X4T4)	
R952	1-247-807-31	CARBON	100 5% 1/4W	*****			
R953	1-249-435-11	CARBON	33K 5% 1/4W	* A-1372-413-AH1 BOARD *****			
R954	1-215-433-00	METAL	3.3K 1% 1/4W	* 4-203-258-01 HOLDER, LED			
R955	1-215-433-00	METAL	3.3K 1% 1/4W	<CAPACITOR>			
R956	1-249-429-11	CARBON	10K 5% 1/4W	C3003	1-126-157-11	ELECT 10MF 20% 16V	
R957	1-214-800-11	METAL	2.2 1% 1/2W	<CONNECTOR>			
R958	1-214-800-11	METAL	2.2 1% 1/2W	CN3001*1-564-519-11	PLUG, CONNECTOR 4P		
R959	1-215-433-00	METAL	3.3K 1% 1/4W	CN3002*1-564-525-11	PLUG, CONNECTOR 10P		
R961	1-249-425-11	CARBON	4.7K 5% 1/4W	CN3003*1-580-690-11	PIN, CONNECTOR (PC BOARD) 2P		
R962	1-214-800-11	METAL	2.2 1% 1/2W	CN3004*1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P		
R963	1-214-800-11	METAL	2.2 1% 1/2W	<DIODE>			
R964	1-215-433-00	METAL	3.3K 1% 1/4W	D3002	8-719-992-06	DIODE SLA-580LT3F	
R965	1-215-433-00	METAL	3.3K 1% 1/4W	<IC>			
R966	1-247-815-91	CARBON	220 5% 1/4W	IC3002	8-742-014-11	HYB IC SBX1981-51	
R967	1-215-455-00	METAL	27K 1% 1/4W	<TRANSISTOR>			
R968	1-215-455-00	METAL	27K 1% 1/4W	Q3002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
R969	1-215-455-00	METAL	27K 1% 1/4W	<RESISTOR>			
R970	1-215-455-00	METAL	27K 1% 1/4W	R3001	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R971	1-215-455-00	METAL	27K 1% 1/4W	R3002	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R972	1-215-455-00	METAL	27K 1% 1/4W	R3006	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R973	1-214-800-11	METAL	2.2 1% 1/2W	R3007	1-216-661-11	METAL CHIP 2.7K 0.50% 1/10W	
R974	1-215-455-00	METAL	27K 1% 1/4W	R3009	1-216-041-00	RES,CHIP 470 5% 1/10W	
R975	1-214-800-11	METAL	2.2 1% 1/2W	R3010	1-216-045-00	RES,CHIP 680 5% 1/10W	
R976	1-215-433-00	METAL	3.3K 1% 1/4W				
R977	1-215-489-00	METAL	680K 1% 1/4W				
R978	1-249-429-11	CARBON	10K 5% 1/4W				
R979	1-249-425-11	CARBON	4.7K 5% 1/4W				
R980	1-247-815-91	CARBON	220 5% 1/4W				
R981	1-247-815-91	CARBON	220 5% 1/4W				
R982	1-215-469-00	METAL	100K 1% 1/4W (41inch)				
R983	1-247-815-91	CARBON	220 5% 1/4W				
R984	1-215-445-00	METAL	10K 1% 1/4W				
R985	1-249-429-11	CARBON	10K 5% 1/4W				
R986	1-215-449-00	METAL	15K 1% 1/4W				
R987	1-249-408-11	CARBON	180 5% 1/4W				
R988	1-249-429-11	CARBON	10K 5% 1/4W				
R989	1-249-425-11	CARBON	4.7K 5% 1/4W				
R990	1-249-431-11	CARBON	15K 5% 1/4W				
R991	1-249-429-11	CARBON	10K 5% 1/4W				
R993	1-249-425-11	CARBON	4.7K 5% 1/4W				
R994	1-216-474-11	METAL OXIDE	82 5% 3W F				
R996	1-215-489-00	METAL	680K 1% 1/4W				
R997	1-215-445-00	METAL	10K 1% 1/4W				



The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<SWITCH>				* A-1375-169-A H2 BOARD, COMPLETE *****	
S3001	1-571-532-21	SWITCH, TACTIL (PROG+)				<CAPACITOR>	
S3002	1-571-532-21	SWITCH, TACTIL (PROG-)					
S3003	1-571-532-21	SWITCH, TACTIL (VOL+)					
S3004	1-571-532-21	SWITCH, TACTIL (VOL-)					
S3005	1-571-532-21	SWITCH, TACTIL (TV/VIDEO)					
		S3006 Δ 1-571-433-31 SWITCH, PUSH (AC POWER)				C3203 1-126-157-11 ELECT 10MF 20% 16V	
						C3204 1-163-037-11 CERAMIC CHIP 0.022MF 10% 50V	
						C3205 1-163-037-11 CERAMIC CHIP 0.022MF 10% 50V	
						<CONNECTOR>	
						CN3201*1-564-519-11 PLUG, CONNECTOR 4P	
						CN3202*1-564-526-31 PLUG, CONNECTOR 11P	
						CN3204*1-564-520-11 PLUG, CONNECTOR 5P	
						<JACK>	
						J3201 1-784-658-11 TERMINAL BLOCK, S	
						J3202 1-507-806-00 JACK 1P	
						<COIL>	
						L3201 1-408-615-31 INDUCTOR 100UH	
						L3202 1-408-615-31 INDUCTOR 100UH	
						<TRANSISTOR>	
						Q3201 8-729-120-28 TRANSISTOR 2SC1623-L5L6	
						<RESISTOR>	
						R3201 1-216-667-11 METAL CHIP 4.7K 0.50% 1/10W	
						R3202 1-216-025-00 RES,CHIP 100 5% 1/10W	
						R3203 1-216-025-00 RES,CHIP 100 5% 1/10W	
						R3204 1-216-661-11 METAL CHIP 2.7K 0.50% 1/10W	
						R3205 1-216-654-11 METAL CHIP 1.3K 0.50% 1/10W	
						R3206 1-216-675-11 METAL CHIP 10K 0.50% 1/10W	
						R3207 1-216-654-11 METAL CHIP 1.3K 0.50% 1/10W	
						R3208 1-216-073-00 RES,CHIP 10K 5% 1/10W	
						R3209 1-216-033-00 RES,CHIP 220 5% 1/10W	
						R3210 1-216-033-00 RES,CHIP 220 5% 1/10W	
						R3211 1-216-033-00 RES,CHIP 220 5% 1/10W	
						R3212 1-216-033-00 RES,CHIP 220 5% 1/10W	
						<SWITCH>	
						S3201 1-571-532-21 SWITCH, TACTIL (MENU)	
						S3202 1-571-532-21 SWITCH, TACTIL (MENU+)	
						S3203 1-571-532-21 SWITCH, TACTIL (MENU-)	
						S3204 1-571-532-21 SWITCH, TACTIL (ENTER)	
						S3205 1-571-532-21 SWITCH, TACTIL (AUTO CONVER)	
						S3206 1-571-532-21 SWITCH, TACTIL (AUTO PROGR)	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
* A-1390-783-A S BOARD, COMPLETE *****				IC2211 8-759-009-06 IC MC14052BF			
<CAPACITOR>				<TRANSISTOR>			
C2200	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	Q2205	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
C2201	1-126-967-11	ELECT 47MF	20% 16V	Q2206	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C2202	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	<RESISTOR>			
C2203	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	R2201	1-216-073-00	RES,CHIP 10K	5% 1/10W
C2204	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	R2202	1-216-073-00	RES,CHIP 10K	5% 1/10W
C2205	1-126-961-11	ELECT 2.2MF	20% 50V	R2203	1-216-073-00	RES,CHIP 10K	5% 1/10W
C2206	1-126-959-11	ELECT 0.47MF	20% 50V	R2204	1-216-025-00	RES,CHIP 100	5% 1/10W
C2207	1-126-963-11	ELECT 4.7MF	20% 50V	R2205	1-216-025-00	RES,CHIP 100	5% 1/10W
C2208	1-164-346-11	CERAMIC CHIP 1MF	16V	R2206	1-216-073-00	RES,CHIP 10K	5% 1/10W
C2209	1-126-963-11	ELECT 4.7MF	20% 50V	R2207	1-216-049-00	RES,CHIP 1K	5% 1/10W
C2210	1-126-963-11	ELECT 4.7MF	20% 50V	R2208	1-216-061-00	RES,CHIP 3.3K	5% 1/10W
C2211	1-126-964-11	ELECT 10MF	20% 50V	R2211	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
C2212	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	R2212	1-216-065-00	RES,CHIP 4.7K	5% 1/10W
C2213	1-126-959-11	ELECT 0.47MF	20% 50V	R2213	1-216-101-00	RES,CHIP 150K	5% 1/10W
C2214	1-126-963-11	ELECT 4.7MF	20% 50V	R2214	1-216-073-00	RES,CHIP 10K	5% 1/10W
C2215	1-164-346-11	CERAMIC CHIP 1MF	16V	R2215	1-216-097-00	RES,CHIP 100K	5% 1/10W
C2216	1-126-963-11	ELECT 4.7MF	20% 50V	R2216	1-216-049-00	RES,CHIP 1K	5% 1/10W
C2217	1-126-960-11	ELECT 1MF	20% 50V	R2217	1-216-073-00	RES,CHIP 10K	5% 1/10W
C2218	1-126-963-11	ELECT 4.7MF	20% 50V	R2218	1-216-089-00	RES,CHIP 47K	5% 1/10W
C2220	1-126-960-11	ELECT 1MF	20% 50V	R2219	1-216-049-00	RES,CHIP 1K	5% 1/10W
C2221	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	R2222	1-216-081-00	RES,CHIP 22K	5% 1/10W
C2222	1-126-933-11	ELECT 100MF	20% 16V	R2223	1-216-089-00	RES,CHIP 47K	5% 1/10W
C2223	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	R2224	1-216-085-00	RES,CHIP 33K	5% 1/10W
C2224	1-126-933-11	ELECT 100MF	20% 16V	R2225	1-216-085-00	RES,CHIP 33K	5% 1/10W
C2227	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	R2226	1-216-295-00	SHORT 0	
C2228	1-126-959-11	ELECT 0.47MF	20% 50V	R2227	1-216-049-00	RES,CHIP 1K	5% 1/10W
C2229	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	R2228	1-216-089-00	RES,CHIP 47K	5% 1/10W
C2230	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	R2230	1-216-075-00	RES,CHIP 12K	5% 1/10W
C2231	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	R2231	1-216-099-00	RES,CHIP 120K	5% 1/10W
C2232	1-164-222-11	CERAMIC CHIP 0.22MF	25V	R2232	1-216-097-00	RES,CHIP 100K	5% 1/10W
C2233	1-164-222-11	CERAMIC CHIP 0.22MF	25V	R2233	1-216-089-00	RES,CHIP 47K	5% 1/10W
C2234	1-126-960-11	ELECT 1MF	20% 50V	R2234	1-216-081-00	RES,CHIP 22K	5% 1/10W
C2235	1-126-960-11	ELECT 1MF	20% 50V	R2235	1-216-097-00	RES,CHIP 100K	5% 1/10W
C2236	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	R2236	1-216-081-00	RES,CHIP 22K	5% 1/10W
C2237	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	R2237	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
C2238	1-126-960-11	ELECT 1MF	20% 50V	R2238	1-216-081-00	RES,CHIP 22K	5% 1/10W
<CONNECTOR>				R2239	1-216-081-00	RES,CHIP 22K	5% 1/10W
CN2201*1-770-748-11CONNECTOR, BOARD TO BOARD 12P				R2240	1-216-081-00	RES,CHIP 22K	5% 1/10W
<IC>				R2241	1-216-081-00	RES,CHIP 22K	5% 1/10W
IC2201	8-752-058-68	IC CXA1315M		R2242	1-216-081-00	RES,CHIP 22K	5% 1/10W
IC2202	8-759-009-06	IC MC14052BF		R2243	1-216-081-00	RES,CHIP 22K	5% 1/10W
IC2203	8-759-100-96	IC UPC4558G2		R2244	1-216-081-00	RES,CHIP 22K	5% 1/10W
IC2204	8-759-100-96	IC UPC4558G2		R2245	1-216-073-00	RES,CHIP 10K	5% 1/10W
IC2205	8-759-100-96	IC UPC4558G2		R2246	1-216-079-00	RES,CHIP 18K	5% 1/10W
IC2206	8-759-100-96	IC UPC4558G2		R2247	1-216-073-00	RES,CHIP 10K	5% 1/10W
IC2207	8-759-100-96	IC UPC4558G2		R2248	1-216-079-00	RES,CHIP 18K	5% 1/10W
IC2208	8-759-253-06	IC XR1071CP		R2249	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R2250	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R2251	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R2252	1-216-073-00	RES,CHIP 10K	5% 1/10W



The components identified by shading
and mark △ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R2253	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	C1434	1-107-362-11	FILM	0.0047MF 10% 200V
R2254	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	C1435	1-107-667-11	ELECT	2.2MF 20% 160V
R2255	1-216-097-00	RES,CHIP	100K 5% 1/10W	C1436	1-137-364-11	FILM	0.001MF 5% 50V
R2256	1-216-097-00	RES,CHIP	100K 5% 1/10W	C1437	1-137-364-11	FILM	0.001MF 5% 50V
R2257	1-216-081-00	RES,CHIP	22K 5% 1/10W	C1438	1-107-362-11	FILM	0.0047MF 10% 200V
R2258	1-216-089-00	RES,CHIP	47K 5% 1/10W	C1439	1-161-830-00	CERAMIC	0.0047MF 99% 500V
R2259	1-216-099-00	RES,CHIP	120K 5% 1/10W	C1440	1-104-664-11	ELECT	47MF 20% 25V
R2260	1-216-089-00	RES,CHIP	47K 5% 1/10W	C1441	1-104-999-11	MYLAR	0.1MF 10% 200V
R2261	1-216-077-00	RES,CHIP	15K 5% 1/10W	C1443	1-126-935-11	ELECT	470MF 20% 16V
R2262	1-216-085-00	RES,CHIP	33K 5% 1/10W	C1444	1-107-639-11	ELECT	47MF 20% 160V
R2263	1-216-085-00	RES,CHIP	33K 5% 1/10W	C1445	1-126-933-11	ELECT	100MF 20% 16V
R2264	1-216-083-00	RES,CHIP	27K 5% 1/10W	C1446	1-126-933-11	ELECT	100MF 20% 16V
R2265	1-216-085-00	RES,CHIP	33K 5% 1/10W	C1450	1-137-364-11	FILM	0.001MF 5% 50V
R2266	1-216-295-00	SHORT	0	<CONNECTOR>			
R2267	1-216-049-00	RES,CHIP	1K 5% 1/10W	CN1431*1-564-508-11	PLUG, CONNECTOR	5P	
R2268	1-216-085-00	RES,CHIP	33K 5% 1/10W	CN1432*1-564-510-11	PLUG, CONNECTOR	7P	
R2269	1-216-073-00	RES,CHIP	10K 5% 1/10W	CN1433*1-564-507-11	PLUG, CONNECTOR	4P	
R2270	1-216-085-00	RES,CHIP	33K 5% 1/10W	CN1434*1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P	
R2271	1-216-073-00	RES,CHIP	10K 5% 1/10W	CN1436	1-695-915-11	TAB (CONTACT)	
R2272	1-216-085-00	RES,CHIP	33K 5% 1/10W	CN1461*1-564-506-11	PLUG, CONNECTOR	3P	
R2274	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	CN1462*1-564-507-11	PLUG, CONNECTOR	4P	
R2277	1-216-097-00	RES,CHIP	100K 5% 1/10W	CN1464*1-564-507-11	PLUG, CONNECTOR	4P	
R2288	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	<DIODE>			
R2298	1-216-073-00	RES,CHIP	10K 5% 1/10W	D1431	8-719-110-88	DIODE RD39ESB2	
R2299	1-216-049-00	RES,CHIP	1K 5% 1/10W	D1432	8-719-110-88	DIODE RD39ESB2	
*****				D1433	8-719-991-33	DIODE 1SS133T-77	
* A-1390-784-AZR BOARD, COMPLETE				<COIL>			
*****				L1431	1-410-478-11	INDUCTOR	47UH
<CONNECTOR>				<TRANSISTOR>			
CN1401*1-564-510-11PLUG, CONNECTOR 7P				Q1431	8-729-017-06	TRANSISTOR 2SC4793	
CN1403*1-564-506-11PLUG, CONNECTOR 3P				Q1432	8-729-017-05	TRANSISTOR 2SA1837	
CN1404*1-564-507-11PLUG, CONNECTOR 4P				Q1433	8-729-119-76	TRANSISTOR 2SA1175-HFE	
CN1405*1-580-689-11PIN, CONNECTOR (PC BOARD) 4P				Q1434	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<RESISTOR>				Q1435	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R1401	1-249-414-11	CARBON	560 5% 1/4W	Q1436	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R1402	1-249-414-11	CARBON	560 5% 1/4W	<RESISTOR>			
R1415	1-216-475-11	METAL OXIDE	120 5% 3W F	R1431	1-249-414-11	CARBON	560 5% 1/4W
R1418	1-216-475-11	METAL OXIDE	120 5% 3W F	R1432	1-249-414-11	CARBON	560 5% 1/4W
*****				R1433	1-249-377-11	CARBON	0.47 5% 1/4W F
* A-1390-785-A ZG BOARD, COMPLETE				R1435	1-216-475-11	METAL OXIDE	120 5% 3W F
*****				R1436	1-216-475-11	METAL OXIDE	120 5% 3W F
4-382-854-11 SCREW (M3X10), P, SW (+)				R1437	1-249-414-11	CARBON	560 5% 1/4W
<CAPACITOR>				R1438	1-249-432-11	CARBON	18K 5% 1/4W
C1433	1-104-999-11	MYLAR	0.1MF 10% 200V	R1439	1-249-432-11	CARBON	18K 5% 1/4W
				R1440	1-249-414-11	CARBON	560 5% 1/4W F
				R1441	1-247-815-91	CARBON	220 5% 1/4W

The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.

KP-EF41HK/ME/MN/SN, EF48HK/ME/MN/SN,
EF53HK/ME/MN/SN, EF61HK/ME/MN/SN RM-871



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1442	1-247-815-91	CARBON	220 5% 1/4W	ACCESSORIES & PACKING MATERIALS			
R1443	1-249-377-11	CARBON	0.47 5% 1/4W F	*****			
R1444	1-247-815-91	CARBON	220 5% 1/4W	Δ 1-569-008-11 ADAPTOR, CONVERSION 2P			
R1445	1-249-403-11	CARBON	68 5% 1/4W	(EF41: ME/MN/EF 48: ME/MN/EF			
R1448	1-249-417-11	CARBON	1K 5% 1/4W	53: ME/MN/EF 61: ME/MN)			
R1449	1-249-403-11	CARBON	68 5% 1/4W	3-861-923-11 MANUAL, INSTRUCTION			
R1450	1-249-417-11	CARBON	1K 5% 1/4W	(ENGLISH, FRENCH, ARABIC,			
R1451	1-247-815-91	CARBON	220 5% 1/4W	CHINESE, PERUSSIAN)			
R1452	1-249-417-11	CARBON	1K 5% 1/4W	* 4-029-168-01 BAG, PROTECTION (EF41)			
R1453	1-249-401-11	CARBON	47 5% 1/4W	* 4-030-895-01 JOINT			
R1454	1-260-311-11	CARBON	39 5% 1/2W	* 4-041-423-11 SHEET, PROTECTION (EF41/EF48)			
R1455	1-249-384-11	CARBON	1.8 5% 1/4W F	* 4-055-672-01 BAG, PROTECTION (EF53)			
R1456	1-215-916-00	METAL OXIDE	680 5% 3W F	* 4-055-673-01 SHEET, PROTECTION (EF53)			
R1457	1-249-417-11	CARBON	1K 5% 1/4W F	* 4-060-976-01 BAG, PROTECTION (EF48)			
R1458	1-249-384-11	CARBON	1.8 5% 1/4W F	* 4-061-032-01 CUSHION (UPPER) (ASSY) (EF41)			
R1459	1-249-400-11	CARBON	39 5% 1/4W F	* 4-061-033-01 CUSHION (LOWER) (ASSY) (EF41)			
R1461	1-249-414-11	CARBON	560 5% 1/4W	* 4-062-158-01 TRAY (EF41)			
R1462	1-249-414-11	CARBON	560 5% 1/4W	* 4-063-775-01 INDIVIDUAL CARTON			
R1465	1-216-475-11	METAL OXIDE	120 5% 3W F	(EF41: HK/ME/MN/SN)			
R1468	1-216-475-11	METAL OXIDE	120 5% 3W F	* 4-063-854-01 INDIVIDUAL CARTON			
*****				(EF48: HK/ME/MN/SN)			
MISCELLANEOUS				* 4-063-855-01 TRAY (EF48)			
*****				* 4-063-856-01 BOARD, TOP (EF48)			
Δ 1-223-925-41 RESISTOR ASSY (HIGH-VOLTAGE)				* 4-063-857-01 BOARD, BOTTOM (EF48)			
Δ 1-451-455-11 DEFLECTION YOKE (R, G)				* 4-063-858-01 CUSHION (UPPER) (ASSY) (EF48)			
Δ 1-451-455-21 DEFLECTION YOKE (B)				* 4-063-859-01 CUSHION (LOWER) (ASSY) (EF48)			
Δ 1-452-790-11 NECK ASSY				* 4-063-864-01 INDIVIDUAL CARTON			
Δ 1-452-909-31 MAGNET ASSY, 4 POLE (EF41)				(EF53: HK/ME/MN/SN)			
1-505-426-11 SPEAKER (10.6 CM) (EF41)				* 4-063-865-01 TRAY (EF53)			
1-505-573-11 SPEAKER (13 CM) (EF48/EF53)				* 4-063-866-01 CUSHION (UPPER) (ASSY) (EF53)			
1-505-703-11 SPEAKER (5 CM) (EF61)				* 4-063-867-01 CUSHION (LOWER) (ASSY) (EF53)			
1-505-704-11 SPEAKER (16 CM) (EF61)				* 4-063-872-01 BOARD, TOP (EF53)			
1-528-864-11 BATTERY, SOLAR				* 4-063-873-01 BOARD, BOTTOM (EF53)			
Δ 1-574-358-51 CORD, POWER (WITH CONNECTOR)				*****			
(EF41SN/EF48SN/EF53SN/EF61SN)				REMOTE COMMANDER			
Δ 1-690-270-21 CORD, POWER (WITH CONNECTOR)				*****			
(EF41: ME/MN/EF 48: ME/MN/EF				1-473-978-21 REMOTE COMMANDER (RM-871)			
53:ME/MN/EF 61:ME/MN)				4-978-977-01 COVER, BATTERY (FOR RM-871)			
Δ 1-769-609-21 CORD, POWER (WITH CONNECTOR)							
(EF41HK/EF48HK/EF53HK/EF61HK)							
Δ 8-598-955-12 BLOCK ASSY, HIGH-VOLTAGE							
Δ 8-733-528-05 CRT 07MAC3 (B) (GROUND SPRING)							
(EF48/EF53)							
Δ 8-733-529-05 CRT 07MAC4 (B) (GROUND SPRING)							
(EF61)							
Δ 8-733-537-05 CRT 07MXC2 (G) (EF48/EF53/EF61)							
Δ 8-733-553-05 CRT 07MXC3 (R) (EF48/EF53)							
Δ 8-733-555-05 CRT 07MXC4 (R) (EF61)							
Δ A-1501-259-AMECHASEAL ASSY (R), SLANT (EF41)							
Δ A-1501-260-AMECHASEAL ASSY (G), SLANT (EF41)							
Δ A-1501-261-AMECHASEAL ASSY (B), SLANT (EF41)							
